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RL85* Digital Series

IN NEED OF HELP

For product related help please visit
http://www.toshiba.co.uk/tv-dvd-support

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English

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Safety Precautions

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken to obtain the best results and for safety to be assured. Please read the points below for your own safety. They are of a general nature, intended to help with all electronic consumer products, and some points may not apply to the goods you have just purchased.

Air Circulation

Leave more than 10cm clearance around the television to allow adequate ventilation. This will prevent overheating and possible damage to the television. Dusty places should also be avoided.

Heat Damage

Damage may occur if the television is left in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity. Place in a location where the temperature remains between 5°C (41°F) min. and 35°C (94°F) max.

Mains Supply

The mains supply required for this equipment is 220-240v AC 50/60Hz. Never connect to a DC supply or any other power source. DO ensure that the television is not standing on the mains lead. Use only the supplied lead. DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance.
In the UK, the fuse fitted in the plug is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted.
IF IN DOUBT, PLEASE CONSULT A COMPETENT ELECTRICIAN.

Do

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and inter-connections between pieces of equipment) are properly made and in accordance with the manufacturers' instructions. Switch off and withdraw the mains plug before making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

WARNING: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See page 5.

DO be careful with glass panels or doors on equipment.

DO NOT REMOVE ANY FIXED COVERS AS THIS WILL EXPOSE DANGEROUS AND 'LIVE' PARTS.

THE MAINS PLUG IS USED AS A DISCONNECTING DEVICE AND THEREFORE SHOULD BE READILY OPERABLE.

Do not

DO NOT obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

DO NOT allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.

DO NOT place hot objects or naked flame sources, such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.

WARNING: To prevent the spread of fire, keep candles or other open flames away from this product at all times.

DO NOT use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturer's approved stand, bracket or legs with the fixings provided according to the instructions.

DO NOT leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off by withdrawing the plug, and make sure your family knows how to do this. Special arrangements may need to be made for people with disabilities.

DO NOT continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.

WARNING – excessive sound pressure from earphones or headphones can cause hearing loss.

ABOVE ALL – NEVER let anyone, especially children, push or hit the screen, or push anything into holes, slots or any other openings in the case.

NEVER guess or take chances with electrical equipment of any kind – it is better to be safe than sorry.

Installation and important information

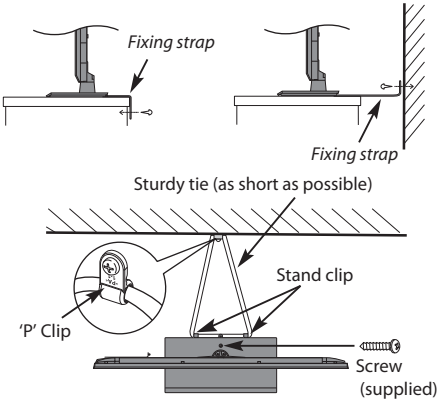
Where to install

Locate the television away from direct sunlight and strong lights. Soft, indirect lighting is recommended for comfortable viewing. Use curtains or blinds to prevent direct sunlight falling on the screen.

Place the TV on a stable, level surface that can support the weight of the TV. In order to prevent Injury and maintain stability of this apparatus, secure the TV to the level surface using the strap if fitted, or to a wall using a sturdy tie to the P clips provided. Otherwise secure the TV on the level surface using the supplied mounting screw.

The LCD display panels are manufactured using an extremely high level of precision technology; however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

Make sure the television is located in a position where it cannot be pushed or hit by objects, as pressure will break or damage the screen. Also, please be certain that small items cannot be inserted into slots or openings in the case.



Stand style is dependent on model

Cleaning the screen and cabinet…

Turn off the power, and clean the screen and cabinet with a soft, dry cloth. We recommend that you **do not** use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

Please take note

The digital reception function of this television is only effective in the countries listed in the "Country" section of the "SETUP" menu. Depending on country/area, some of this television's functions may not be available. Reception of future additional or modified services can not be guaranteed with this television.

If stationary images generated by 4:3 broadcasts, text services, channel identification logos, computer displays, video games, on-screen menus, etc. are left on the television screen for any length of time, they could become conspicuous. It is always advisable to reduce both the brightness and contrast settings.

Very long, continuous use of the 4:3 picture on a 16:9 screen may result in some retention of the image at the 4:3 outlines. This is not a defect of the LCD TV and is not covered under the manufacturer's warranty. Regular use of other size modes (eg: Super Live) will prevent permanent retention.

EXCLUSION CLAUSE

Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

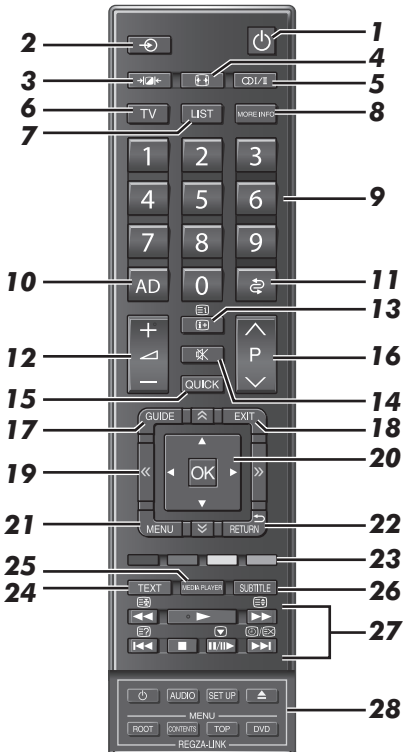
i) Fire;
ii) Earthquake;
iii) Accidental damage;
iv) Intentional misuse of the product;
v) Use of the product in improper conditions;
vi) Loss and/or damage caused to the product whilst in the possession of a third party;
vii) Any damage or loss caused as a result of the owner's failure and/or neglect to follow the instructions set out in the owner's manual;
viii) Any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following: loss of profit, interruption of business, the loss of recorded data whether caused during normal operation or misuse of the product.

NOTE: A Toshiba wall bracket or stand, where available, must be used to maintain the product's BEAB approval.

The remote control

Simple at-a-glance reference of your remote control.



1 For On/Standby mode

2 To select external input sources

3 Selectable Picture preferences

4 Widescreen viewing

5 Ⅰ/Ⅱ Stereo/bilingual transmissions

6 To select TV Mode

7 To access the analogue or digital Channel List

8 To access More Information Menu

9 Number buttons

10 Switch the Audio Description On/Off

11 To return to previous programme position

12 To alter the TV volume

13 To display on-screen information
To access the index page in Text mode

14 To mute the TV sound

15 To access Quick Menu

16 To change programme positions
To change TEXT pages

17 To display the digital on-screen Programme Guide

18 To exit menus

19 ⌃ ⌄ ⟨ ⟩ To page up, down, left or right

20 When using menus, the arrows move the cursor on the screen up, down, left or right. Press **OK** to confirm your selection

21 On-screen Menus

22 To return to previous Menu

23 **Colour buttons:** Text and interactive service control buttons

24 To call up text services

25 To access Media Player Menu

26 Digital Subtitles or Analogue TEXT Subtitle pages if available

27 **When in TV mode:**

- Picture still
- Analogue time display

When in Text mode:

- To reveal concealed text
- To hold a wanted page
- To enlarge text display size
- To select a page while viewing a normal picture

When using Programme Guide:

- –24 hours
- +24 hours
- –1 page
- +1 page

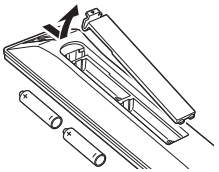
During Playback:

- To PLAY
- To STOP
- To PAUSE/STEP
- To SKIP-BACK
- To REWIND
- To FAST FORWARD
- To SKIP-FORWARD

28 **When using REGZA-LINK:**

⏻	To turn On/Standby
AUDIO	To access **AUDIO** Menu
SET UP	To access **SET UP** Menu
⏏	To EJECT
ROOT	To access **Root Menu**
CONTENTS	To access **Contents Menu**
TOP	To access **Top Menu**
DVD	To access **DVD Menu**

Inserting batteries and effective range



Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the proper way. Suitable battery types for this remote are AAA, IEC R03 1.5V.

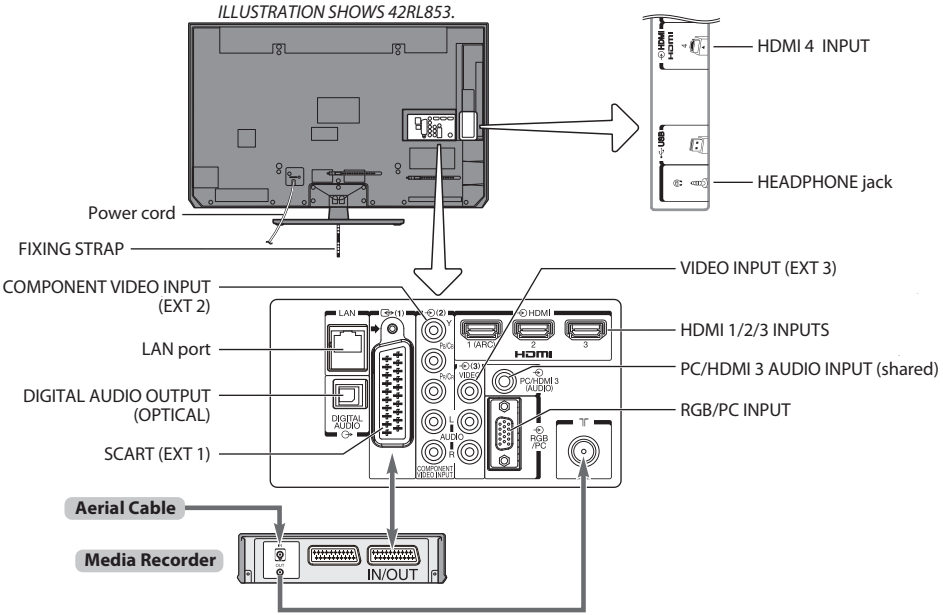
Do not combine a used, old battery with a new one or mix battery types. Remove dead batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 72 of this manual.

Warning: Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced, the batteries may need replacing.

Connecting external equipment

Before connecting any external equipment, turn off all main power switches. If there is no switch, remove the mains plug from the wall socket.



Aerial cables:

Connect the aerial to the socket on the rear of the television. If you use a decoder and/or a media recorder, it is essential that the aerial cable is connected through the decoder and/or through the media recorder to the television.

SCART leads:

Connect the media recorder **IN**/**OUT** socket to the television. Connect the decoder **TV** socket to the television.

Before running **Auto Tuning**, put your decoder and media recorder to **Standby**.

The phono sockets alongside the **COMPONENT VIDEO INPUT** sockets will accept L and R audio signals.

The Digital Audio Output socket enables the connection of a suitable surround sound system.

NOTE: This output is always active.

HDMI® (High-Definition Multimedia Interface) is for use with a DVD decoder or electrical equipment with digital audio and video output.

For acceptable video or PC signal formats through the HDMI terminals, see page 74.

NOTE: Although this television is able to connect to HDMI equipment, it is possible that some equipment may not operate correctly.

LAN port is used to connect the TV to your home network. This TV can play digital content stored on a DLNA CERTIFIED™ product with server function.

A wide variety of external equipment can be connected to the back of the television; therefore, the relevant owner's manuals for *all* additional equipment must be referred to for exact instructions.

If the television automatically switches over to monitor external equipment, return to normal television by pressing the desired programme position button. To recall external equipment, press ⮊ to select between **DTV**, **EXT 1**, **EXT 2**, **EXT 3**, **HDMI 1**, **HDMI 2**, **HDMI 3**, **HDMI 4**, **PC** or **ATV**.

When the external input mode is selected while viewing DTV mode, the SCART socket does not output video/audio signals.

English

Connecting an HDMI® or DVI device to the HDMI input

The HDMI input on your television receives digital audio and uncompressed digital video from an HDMI source device or uncompressed digital video from a DVI (Digital Visual Interface) source device.

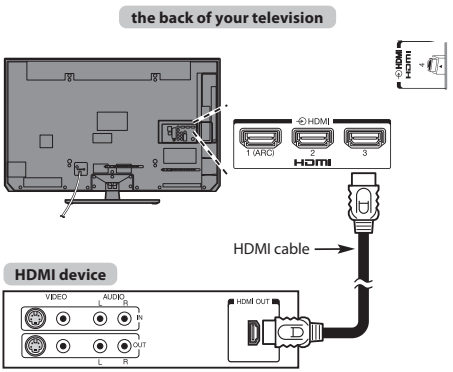
This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) programme material in digital form from EIA/CEA-861-D–compliant [1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output). For acceptable video signal formats, see page 74.

NOTE:
- Some early HDMI equipment may not work properly with your latest HDMI TV, due to the adoption of a new standard. Please unplug your HDMI cable first and then try setting the **INSTAPORT™** and **Enable Content Type** options to "**Off**". Your early HDMI source should operate properly with your television. See page 63.
- Supported Audio format: Linear PCM, Dolby Digital (AC-3), sampling rate 32/44.1/48kHz.

To connect an HDMI device

Connect an HDMI cable (type A connector) to the HDMI terminal.

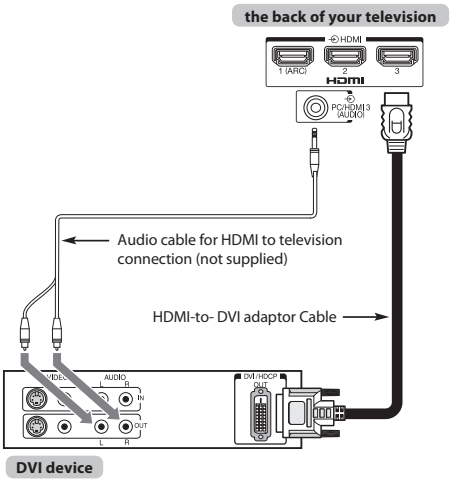
For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo ( ).
- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly with this model.
- HDMI cable transfers both video and audio. Separate analogue audio cables are not required (see illustration).
- See "HDMI 3 Audio" on page 62.



To view the HDMI device video, press the ⊕ button to select HDMI 1, HDMI 2, HDMI 3 or HDMI 4 mode.

To connect a DVI device

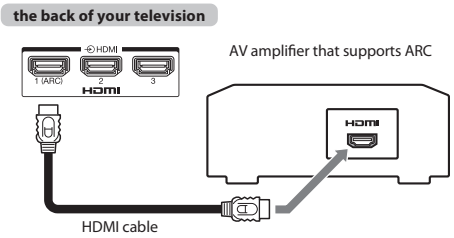
Connect an HDMI-to-DVI adaptor cable (HDMI type A connector) to the HDMI 3 terminal and audio cables to the PC/HDMI 3 (AUDIO) socket (see illustration).
- The recommended HDMI-to-DVI adaptor cable length is 6.6 ft (2m).
- An HDMI-to-DVI adaptor cable transfers video only. Separate analogue audio cables are required.
- See "HDMI 3 Audio" on page 62.



NOTE:
To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:
- When turning on your electronic components, turn on the television first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the television.

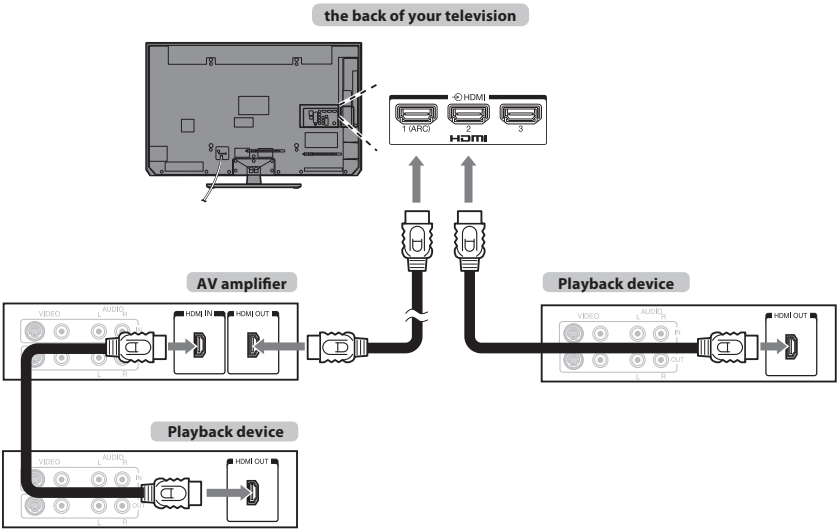
HDMI's ARC (Audio Return Channel) feature

This feature enables the audio signal of the TV to be sent to the AV amplifier via the HDMI cable. It will not be necessary to connect a cable from the audio output of the TV to the audio input of the AV amplifier to reproduce the audio received from the tuner of the TV through the AV amplifier.



REGZA-LINK connection

You can control the basic functions of connected audio/video devices using the television's remote control if you connect a REGZA-LINK compatible AV amplifier or playback device. For an explanation of setup and operations, see pages 64–65.



For the setup shown above, you will need three HDMI cables.

NOTE:

- If several devices are connected, the REGZA-LINK feature may not operate properly.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo ( ).
- This function is available when one PC and one AV amplifier are connected separately. However, it may not operate properly if the PC is connected via the AV amplifier.

Before controlling the device(s):

- After completing the above connections, set the REGZA-LINK Setup menu as you desire (see page 64).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK feature uses CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to individual instruction manuals for compatibility information.

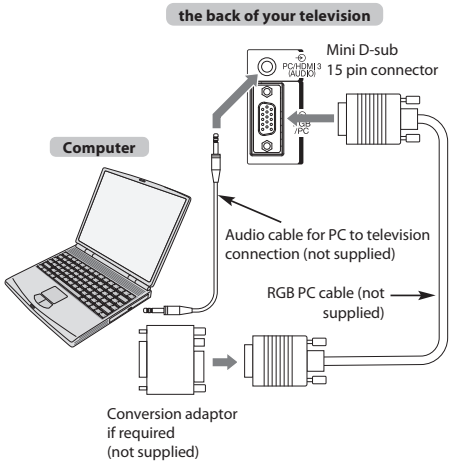
English

Connecting a computer

With either an RGB/PC or an HDMI connection, you can watch your computer's display on the television and hear the sound from the television's speakers.

To connect a PC to the RGB/PC terminal

When connecting a PC to the RGB/PC terminal on the television, use an analogue RGB (15-pin) computer cable and a PC audio cable for the PC/HDMI 3 (AUDIO) socket. Select **PC** from the **PC/HDMI 3 Audio** options in the **AV Connection** menu located in the **SETUP** menu.


the back of your television
Mini D-sub
15 pin connector
PC/HDMI 3 (AUDIO)
RGB /PC
Computer
Audio cable for PC to television connection (not supplied)
RGB PC cable (not supplied)
Conversion adaptor if required (not supplied)

To use a PC, set the monitor output resolution on the PC before connecting it to the television. For acceptable PC signal formats, see page 73.

To display the optimum picture, use the PC setting feature (see page 60).

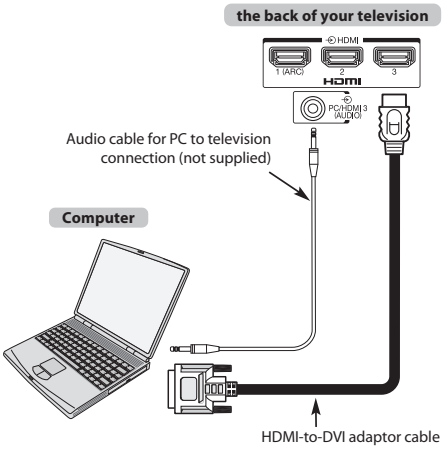
NOTE:

- The PC audio input terminal on the television is shared with the HDMI 3 analogue audio input terminal (see page 62).
- Some PC models cannot be connected to this television.
- An adaptor is not needed for computers with a compatible mini D-sub15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.
- A band may appear at the edges of the screen or parts of the picture may be obscured. This is due to scaling of the picture by the set, it is not a malfunction.
- When PC input mode is selected, some of the television's features will be unavailable e.g. **Colour System** in the **SETUP** menu.
- Some PC models may output unique signals that the television may be unable to detect (see page 73).

To connect a PC to the HDMI terminal

When connecting a PC to the HDMI terminal on the television, use an HDMI-to-DVI adaptor cable and an analogue audio cable.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). A separate analogue cable is not necessary.



For acceptable PC and video signal formats, see page 74.

NOTE:

- The edges of the images may be hidden.
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

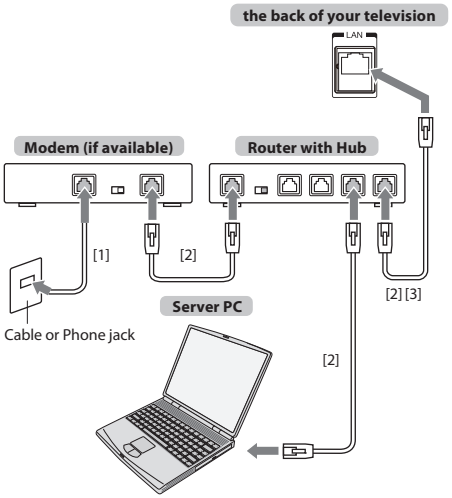
Connecting a home network

The LAN port allows your Toshiba TV to connect to your home network. You can use this revolutionary home entertainment networking system to access photo, video and audio files that are stored on a DLNA CERTIFIED™ server and play/display them on your TV.

NOTE:

- If you connect to a shared network outside your home, it is advisable to use a router. Always use DLNA CERTIFIED™ products in private network environments.
- If you use a hub or switch to connect the TV to your home network, you may not be able to use the automatic setup and will have to manually set up the network address. See page 35.
- If you use a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.
- If you connect the TV and PC directly, use a crossover LAN cable.

To connect the TV to a home network - Wired



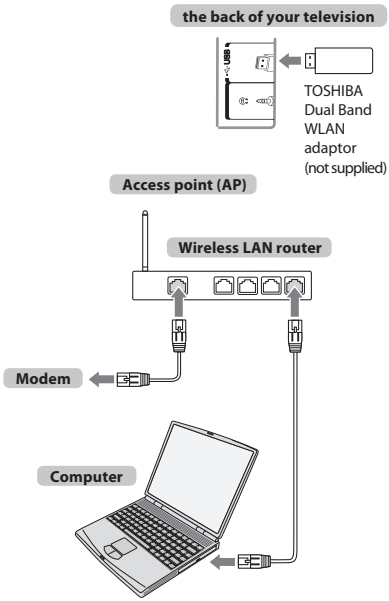
[1] Coaxial or telephone cable (depending on your modem type)

[2] Standard LAN cable

[3] Do NOT connect a phone jack directly to the TV's LAN port.

To connect the TV to a home network with an internet connection - Wireless

Please refer to "Wireless Setup" section on page 32.



English

Controls and input connections

A wide variety of external equipment can be connected to the input sockets on the side of the television. *While all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.*

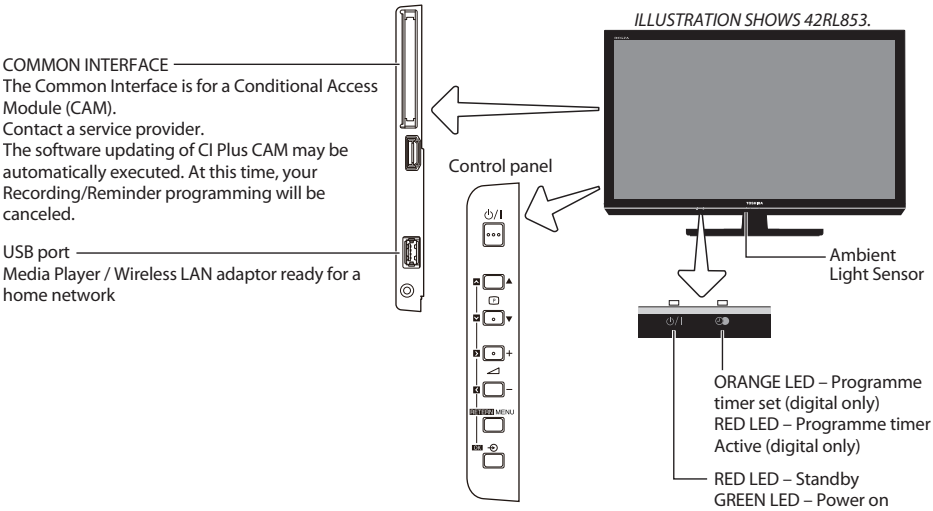


ILLUSTRATION SHOWS 42RL853.
COMMON INTERFACE
The Common Interface is for a Conditional Access Module (CAM).
Contact a service provider.
The software updating of CI Plus CAM may be automatically executed. At this time, your Recording/Reminder programming will be canceled.
USB port
Media Player / Wireless LAN adaptor ready for a home network
Control panel
Ambient Light Sensor
ORANGE LED – Programme timer set (digital only)
RED LED – Programme timer Active (digital only)
RED LED – Standby
GREEN LED – Power on

Switching on

If the RED LED is not lit, check that the mains plug is connected to the power supply and press ⏻ on the remote control; it may take a few moments. The GREEN LED will be lit.

To put the television into Standby, press ⏻ on the remote control. To view the television, press ⏻ again. The picture may take a few seconds to appear.

For energy saving:

We recommend that you use the television with the factory settings. The factory settings are for energy saving. Unplugging the mains plug will cut energy use to zero for all televisions. This is recommended when the television is not being used for a long time, e.g. when on holiday. Reducing the brightness of the screen will reduce energy use. Energy efficiency cuts energy consumption and thus saves money by reducing electricity bills.

NOTE: Putting the television into standby mode will reduce energy consumption, but will still draw some power.

Using the remote control

Press **MENU** on the remote control to display the menu.

The menu appears as a list of five topics. As each symbol is selected by pressing ◀ or ▶ on the remote control, its respective options will appear below.

NOTE: The same menu is displayed in DTV (Digital TV) and ATV (Analogue TV) modes; however, where some items are not available in a mode, they will appear greyed out.

To use the option, press ▲ and ▼ on the remote control to move up and down and press ◀ or ▶ to select your desired setting. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

Using the controls and connections

To alter the volume press – ◿ +.

To alter the programme position press ▼ⓟ▲.

Press **MENU** and ▲▼▶◀ to control the sound and picture options.

Press **MENU** to finish.

The Media Player feature provides access to photo, movie and music files stored on a USB storage device that is connected via the USB port or on a network device.

NOTE: The USB socket has limited functionality and Toshiba can take no responsibility for damage to other connected equipment.

The USB socket has to be used with the "TOSHIBA Dual Band WLAN Adaptor WLM-10U2" in order to access a wireless network.

You must use the TOSHIBA Wireless LAN device to ensure correct operation of this feature. This feature is available only when the "TOSHIBA Dual Band WLAN Adaptor" is used.

To select an external input, press ⮊ until the appropriate input source is selected.

Please always refer to the owner's manual of the equipment to be connected for full details.

NOTE: Interactive video games that involve shooting a "gun" at an on-screen target may not work with this TV.

Startup Application

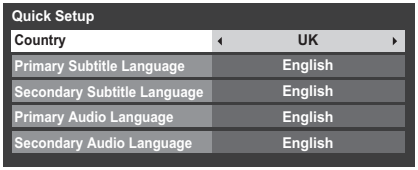
Before switching on the television, put your decoder and media recorder, if applicable, to **Standby**. To set up the television, use the buttons on the remote control as detailed on page 6.

Quick Setup

1. Press the ⏻ button. The **Menu Language** screen will appear. This screen will appear the first time that the television is switched on and each time **Reset TV** is selected.

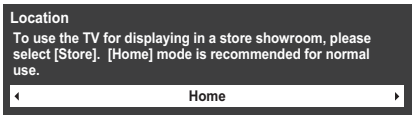
2. Press ▲, ▼, ◀, or ▶ to select the menu language, and then press **OK**.

3. Highlight **Country** and press ◀ or ▶ to select. The television is now set to tune the stations for your country.



NOTE:
- The following display menus will differ slightly according to the country you selected.
- If there is not a country that you want to select in the list, select **Others**.

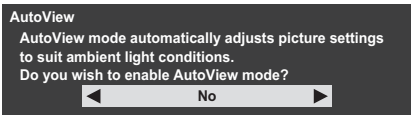
4. Press **OK**, and the **Location** screen will appear.


Location
To use the TV for displaying in a store showroom, please select [Store]. [Home] mode is recommended for normal use.
Home

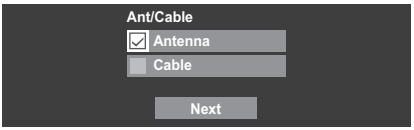
5. Press ◀ or ▶ to select **Home** or **Store**. For normal home use, select **Home**.

6. Press **OK**. If **Store** is selected in step 5, a **Store mode** confirmation window will appear. If you select **Yes** from that window, the TV will proceed to the **Auto Demo** setup screen.

7. Press **OK**, and the **AutoView** screen will appear, press ◀ or ▶ to select **Yes** or **No**.


AutoView
AutoView mode automatically adjusts picture settings to suit ambient light conditions.
Do you wish to enable AutoView mode?
No

8. Press **OK**. If the **Ant/Cable** screen appears, press ▲ or ▼ to select **Antenna** or **Cable**, and then press **OK** to check (✓).

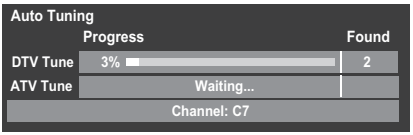


9. Select **Next** and press **OK**. The **Auto Tuning** start up screen will appear with the option to select between **DTV and ATV**, **DTV** or **ATV** if available. Use ◀ or ▶ to select the appropriate mode.

10. Press ▼ or ▲ to highlight **Start Scan**, and then press **OK**.

The television will start to search for available **DTV** and/or **ATV** channels. The progress bar will indicate the scan status.

You must allow the television to complete the search.



When the search is complete, the television will automatically select position one.

The **Auto Tuning** screen will display the total number of services found.

NOTE: If there are multiple channels with the same channel number, a confirmation window will appear. Press ◀ or ▶ to select the one you prefer.

11. Press ◀ or ▶ to view the **DTV** (digital channel) or **ATV** (analogue channel) lists.

12 Use ▼ or ▲ to move through the list to select a channel, and then press **OK** to view.

In **ATV** mode, some areas may receive duplicate stations. There may not be a clear picture or the signal may be weak, so the station order can be changed using **ATV Manual Tuning**.

REMEMBER: Press **TV** at any time to select between **ATV** and **DTV** (DTV TV/DTV Radio/DTV Text if available) modes.

NOTE: The time will be set automatically by transmission but can be advanced or decreased by using **Local Time Setting** in the **DTV Settings** screen.

PLEASE NOTE

The **Quick Setup** menu can also be accessed at any time from the **SETUP** menu.

Ant/Cable In (if available)

From this menu, you can set the RF input configuration to cable.

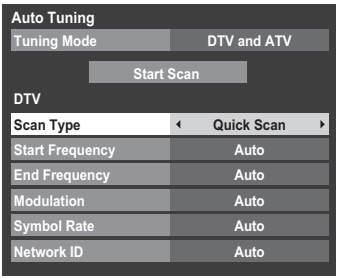
1 Press **MENU**, and select **SETUP** menu.

2 Use ▼ to highlight **Ant/Cable In** and use ◀ or ▶ to select **Antenna** or **Cable**.

NOTE: When you attempt to change the **Ant/ Cable In** setting, a warning message will appear followed by PIN entry (if PIN has been set) and a prompt for **Auto Tuning**.

3 When **Ant/Cable In** is set to **Cable**, the following setting options will be provided in the **Auto Tuning** screen.

Press ▲ or ▼ to select an item, and then press ◀ or ▶ to select your desired option.



With the exception of **DTV Scan Type** and **DTV Modulation** items, all of the following items will have 2 operating modes. The first is **Auto** where the values for each item are preset by the system. The second is an **Input** mode where you will be able to enter a single value in place of the pre-set value. If no channel is currently tuned and the **Input** state is chosen, a system default value will be shown. However, if a channel is currently tuned when the item is accessed, the value of the current channel will be displayed.

DTV Scan Type:

This item determines whether a **Quick Scan** or a **Full Scan** will be executed.
The **Quick Scan** is a simplified version of the **Full Scan** that is designed to complete in less time.

DTV Start Frequency:

This sets the frequency from which the scan will begin.

DTV End Frequency:

This sets the frequency at which the scan will end.

DTV Modulation:

You can choose from five QAM modulation settings.

DTV Symbol Rate:

This is the baud rate (KS/s) of the scan.

DTV Network ID:

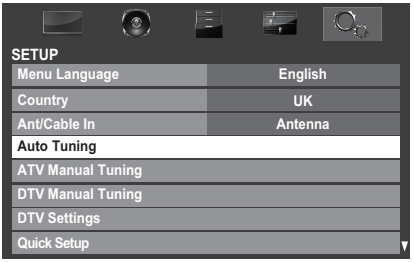
This is the Network ID to be utilized for the scan. This item is greyed out when DTV Scan Type is set to “Full Scan”.

Auto Tuning

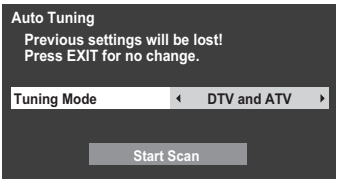
NOTE: As new services are broadcast, it will be necessary to re-tune the television in order to view them.

Auto Tuning *will completely re-tune the television and can be used to update the channel list.* ***It is recommended that Auto Tuning is run periodically to ensure that all new services are added****. All current channels and settings, i.e. locked channels, will be lost.*

1 Press **MENU** and use ◀ or ▶ to select **SETUP** menu. Use ▼ to highlight **Auto Tuning**. Press **OK**.



2 A screen will appear warning that previous programmes and settings will be deleted.



Use ◀ or ▶ to select **DTV and ATV**, **DTV** or **ATV**, if available, then highlight **Start Scan** and press **OK** to continue with the **Auto Tuning**.

NOTE: If you have selected "**Others**" for the **Country** field in the **SETUP** menu, and selected a tuning mode other than "**DTV**" , choose the optimum ATV broadcasting system (B/G, I, D/K or L).

The television will start to search for all available DTV and/or ATV services.

You must allow the television to complete the search.

When the search is complete, the **Auto Tuning** screen will display the services found.

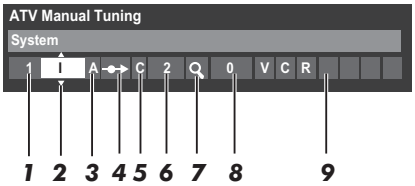
3 Use ▼ or ▲ to move through the list to select a channel, and then press **OK** to view.

ATV Manual Tuning

Tuning

The television can be tuned-in manually using ***ATV Manual Tuning****. For example, you might use the feature if the television cannot be connected to a media recorder/decoder with a SCART lead or when you want to tune-in a station on another* ***System****.*

Use ◀ and ▶ to move across the screen and select any of the ATV Manual Tuning options. Then use ▲ or ▼ to adjust the settings.



1 **Position**

The number to be pressed on the remote control to tune the channel.

2 **System**

Specific to certain areas.

3 **Colour System**

Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.

4 **Skip**

Set Skip to On (↷) or Off (⊶) for the selected channel. See page 17.

5 **Signal Class**

The channel classification.

6 **Channel**

The channel number on which a station is being broadcast.

7 **Search**

Search up and down for a signal.

8 **Manual Fine Tuning**

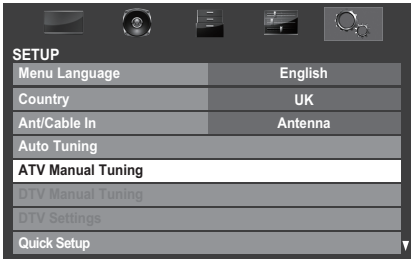
Only used if interference/weak signal is experienced. See page 68.

9 **Station**

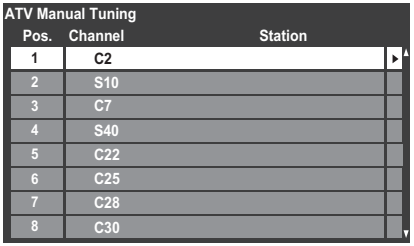
Station identification. Use the ▲ or ▼ and ◀ or ▶ buttons to enter up to seven characters.

To allocate a position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder, press PLAY, and then manually tune.

1 Press **MENU** and use ◀ or ▶ to select the **SETUP** menu. Press ▼ to highlight **ATV Manual Tuning** and press **OK** to select.



2 Use ▲ or ▼ to highlight the desired position. We suggest ***Pos. 0*** for a media recorder.



Different **Channel** numbers may be displayed.

3 Press **OK** to select. If the channel chosen for the media recorder is set to skip, Skip should be removed before storing.

4 Press ▶ to select **System** and use ▲ or ▼ to change if required.

5 Then press ▶ to select **Search**.

6 Press ▲ or ▼ to begin the search. The search symbol will flash.

7 Each signal will show on the television. If it is not your media recorder, press ▲ or ▼ again to restart the search.

8 When your media recorder signal is found, press ▶ to move along to **Station**. Use ▲, ▼, ◀ and ▶ to put in the required characters, *e.g.* **VCR**.

9 Press **OK** to save.

10 Repeat for each ***position*** you want to tune, or press **RETURN** to return to the list of channels and select the next number to tune.

11 Press **EXIT** when you have finished.

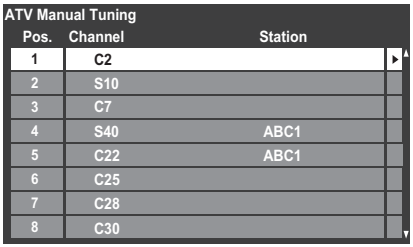
PLEASE NOTE

This television has direct channel entry if the channel numbers are known.
Select the **ATV Manual Tuning** screen in ***Step 3***.
Enter the **Position number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel** number. Press **OK** to save.

Skip

To prevent certain channels from being viewed, positions can be skipped.

1. Select **ATV Manual Tuning** from the **SETUP** menu.
2. Use ▲ or ▼ to highlight the position to be skipped and press **OK** to select.



3. Press ▶ to select **Skip**.
4. Use ▲ or ▼ to turn **Skip** on.
   Press **OK**.

   on the screen indicates a skipped position.

5. Press **RETURN** and repeat from ***Step 2*** or press **EXIT**.

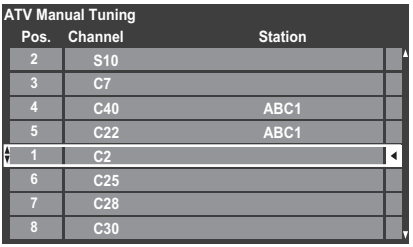
   Each position has to be *individually* selected. To turn **Skip** off, repeat the procedure for each position.

   Skipped positions ***cannot*** be selected by **P∧** and **P∨** or by the controls on the television but ***can*** still be accessed by the number buttons on the remote control.

Sorting positions

Channels may be moved and saved to the position of your choice.

1. Select **ATV Manual Tuning** from the **SETUP** menu.
2. With the list of channels showing, use ▲ or ▼ to highlight the channel you want to move and press ▶.



3. Use ▲ or ▼ to move through the list to your preferred position. As you do so, the other channels will move to make room.
4. Press ◀ to save your move.

   Repeat as necessary, and then press **EXIT**.

English

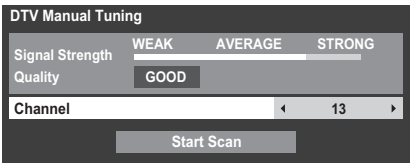
DTV Manual Tuning

NOTE: This feature varies depending on the **Ant/Cable In** setting.

Manual Tuning

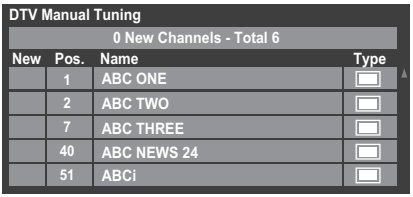
This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

1. Select **DTV Manual Tuning** from the **SETUP** menu and press **OK**.



2. Enter the multiplex number using the number buttons or use ◀ or ▶ to adjust the number up or down.

3. Highlight **Start Scan**, and then press **OK**. The television will automatically search for that multiplex.



When the multiplex is found, any channels that are not currently in the channel list will be added and the channel information at the top of the screen will be updated.

4. Repeat as necessary. Press **EXIT** to finish.

Manual Tuning for DVB-C

When **Ant/Cable In** is set to **Cable, DTV Manual Tuning** items are as follows:

Frequency – input a specific frequency to be scanned

Modulation – choose from one of five QAM modulation options

Symbol Rate – input a specific baud rate (KS/s) to be used for the manual scan

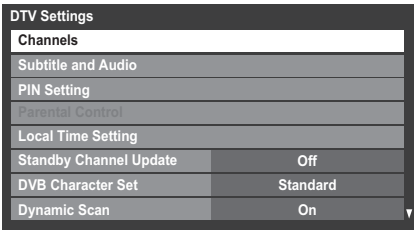
DTV Settings

Channels

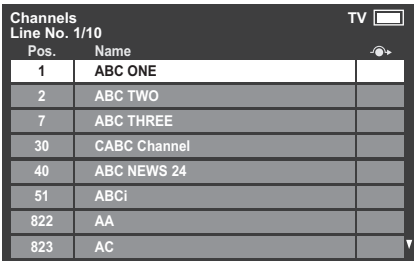
The channel order may be changed to suit your personal preference.

1. Select **DTV Settings** from the **SETUP** menu and press **OK**.

2. Select **Channels** and press **OK**.



3. For your convenience, you can jump to specific places in the list by one of two methods.

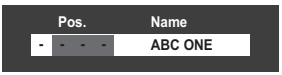


Line Number Jump — Use the **number buttons** (0-9) to input the line number you want to select, and then press **OK**.

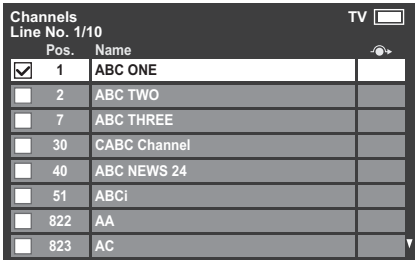
Name Jump — Press ◀◀ or ▶▶ to jump to the next station name with a different initial letter.

It is also possible to change the Position number of a particular channel.

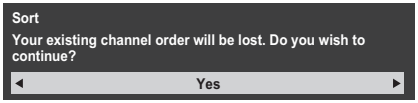
Renumber — Press the **RED** button to renumber the highlighted channel. Edit the channel number using the **number buttons** and press **OK**. If the position number you input already exists, a confirmation window will appear.



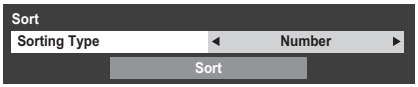
Move — Press the **GREEN** button to activate the **Move** feature. Use the ▲ or ▼ buttons to select the channel you wish to move and press **OK** to check.
If you wish to move multiple channels at once, select another channel and check in the same way. Repeat as necessary.
Once all desired channels have been checked, use the ▲ or ▼ buttons to place the focus at the position to which you wish to move the channels. The channels will be inserted above the highlighted channel. Press the **GREEN** button to execute the move.



Sort — Press the **YELLOW** button. A confirmation window will appear. Press ◀ or ▶ to select **Yes** and press **OK**.



The **Sorting Type** selection window will appear.



Press ◀ or ▶ to set the sorting type.

A-Z Sort Station name order (A to Z)

Number Position No. order (numerical sequence)

Press ▼ to highlight **Sort** and press **OK**.

Standby Channel Update

*If the **Standby Channel Update** is set to **On**, when the TV is in standby mode, Digital Tuning is automatically executed and any new channels are saved.*

1. Select **DTV Settings** from the **SETUP** menu and press **OK**.
2. Press ▼ to select **Standby Channel Update** and use ◀ or ▶ to select **On**.

DVB Character Set

*This feature allows you to manually select the character set (**Standard** = Table 0, **West** = Table 5 or **Latin alphabet 9**) to be used for DVB-C or DVB-T channels.*

1. Select **DTV Settings** from the **SETUP** menu and press **OK**.
2. Press ▼ to select **DVB Character Set** and use ◀ or ▶ to select **Standard**, **West** or **Latin alphabet 9**.

Dynamic Scan

*If the broadcast information has changed in your DVB-T receiving area, the TV screen will display the message "**Broadcast information has changed. Would you like to rescan now?**". Please follow the message. If you do not wish for the TV to detect changes and prompt you to rescan, you should set this feature to "**Off**".*

1. Select **DTV Settings** from the **SETUP** menu and press **OK**.
2. Press ▼ to select **Dynamic Scan** and use ◀ or ▶ to select **On**.

Location setting

*You can select either **Home** or **Store** mode. **Home** is recommended for normal home use. Select **Store** when using the television for displaying in a shop, etc.*

1. Select **Location** from the **SETUP** menu.
2. Press ◀ or ▶ to select **Home** or **Store**.

Analogue switch-off

This is a **digital** television which is integrated to allow the use of both **digital** and **analogue** services. However, during the lifetime of this set it is very likely that **analogue** services will be switched off to allow for more new **digital** services.

This 'switch-off' will happen in a number of phases, which will be advertised in your area well in advance. It is recommended that at each phase the television is re-tuned to ensure that existing and new **digital** services can be viewed without disruption.

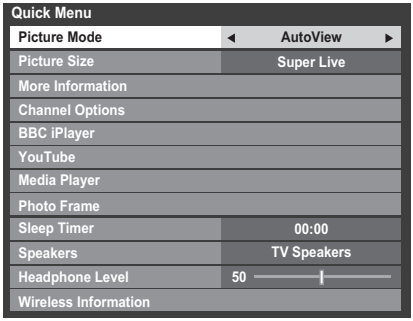
English

General controls

Quick Menu

Quick Menu helps you access some options quickly, such as **Picture Mode, Picture Size, More Information, Sleep Timer** etc.

Press **QUICK** to display the **Quick Menu** and use ▲ or ▼ to select the option.



NOTE: Quick Menu items are different depending on the current mode.

Quick menu item example

Mode	Quick menu item	Description
When viewing a TV programme or pictures from the external input	Picture Mode	See page 25.
	Picture Size	See page 23.
	More Information	See page 54.
	Channel Options	See page 56.
	BBC iPlayer	See page 39.
	YouTube	See page 39.
	Media Player	See page 42.
	Photo Frame	See page 49.
	Sleep Timer	See page 52.
	Speakers	See page 64.
	Headphone Level	See page 22.
	Wireless Information	See page 34.
When using EPG	Genre Colour	See page 55.
	EPG Update/ Cancel EPG Update	See page 54.
Media Player (Multi View, List View)	Sort	See page 45.
	Interval Time	See page 45.
	Repeat	See page 45.
	Device Information	See page 45.
	Wireless Information	See page 34.
Photo Frame	PICTURE	See page 25.
	Picture Size	See page 23.

Selecting positions

To select a position, use the numbered buttons on the remote control.

Positions can also be selected using **P∧** and **P∨**.

To display on-screen information such as position, input mode or stereo/mono signal, press [i+]. Press again to cancel.

The Time Display – **analogue** only

The time display facility allows the current (text service) time to be seen on the television screen.

Press [⏲]/[EX] whilst watching a normal television broadcast to see the time display from the broadcaster. It will remain on screen for about 5 seconds.

NOTE: This display may not be available in some cases.

Stereo and Bilingual transmissions

For ATV programmes

If stereo or dual language broadcasts are transmitted, the word Stereo or Dual will appear on the screen each time positions are changed, disappearing after a few seconds. If the broadcast is not in stereo, the word Mono will appear.

Stereo… Press ◯I/II to select **Stereo** or **Mono**.

Bilingual… Bilingual transmissions are rare. If they are transmitted, the word **Dual** will be displayed. Choose the required programme number, and if the word **Dual** appears, press ◯I/II to select **Dual 1**, **Dual 2** or **Mono**.

For DTV programmes

For stereo or dual mono broadcasts, press ◯I/II and use ◀ or ▶ to select settings.

Mode Display	Pressing ▶
◯◯ Stereo	Stereo ⟶ Left ⟶ Right
●◯ Dual mono	Dual 1 ⟶ Dual 2
⬭ Mono	–
⋯◯◯ Multichannel	–

For multi-audio track broadcasts, press ◯I/II repeatedly to change the audio language (see "Audio language" on page 57).

Sound controls

Volume controls and mute sound

Volume
Press + or − to adjust the volume.

Sound Mute
Press 🔇 once to turn the sound off and again to cancel.

Dual

If a programme or film is being broadcast with a soundtrack in more than one language, the **DUAL** *feature allows selection between them.*

1. Press **MENU** and ◀ or ▶ to select the **SOUND** menu.
2. Press ▼ to highlight **Dual**, and then press ◀ or ▶ to choose between **Dual 1** or **Dual 2**.

Balance, Bass and Treble

The sound controls are accessible in **digital** *and* **analogue** *modes.*

1. Select the **SOUND** menu.
2. Press ▼ to highlight **Balance**, and then press ◀ or ▶ to emphasize left or right speaker balance.

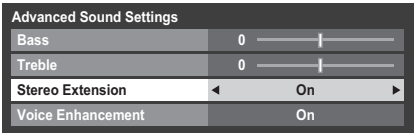
To adjust Bass and Treble

1. In the **SOUND** menu, press ▼ to highlight **Advanced Sound Settings**, and then press **OK**.
2. Press ▼ to highlight **Bass** or **Treble**, and then press ◀ or ▶ to adjust the settings.

Surround Settings

Stereo Extension *and* **Voice Enhancement** *help to create an enhanced surround sound experience. Your TV's audio will sound fuller, richer, and wider.*

1. In the **SOUND** menu, press ▼ to highlight **Advanced Sound Settings**, and then press **OK**.
2. Press ▼ to highlight **Stereo Extension**, and then press ◀ or ▶ to select **On**.



3. Press ▼ to highlight **Voice Enhancement**, and then press ◀ or ▶ to select **On**.

Dolby Volume®

This feature provides a consistent sound volume regardless of programmes, channels or input sources.

1. In the **SOUND** menu, press ▼ to highlight **Dolby Volume**.
2. Press ◀ or ▶ to select **Low**, **High** or **Off**.

NOTE:
- The **Dolby Volume** setting influences the **Dynamic Range Control** and **Digital Audio Output** settings.
- If **Dynamic Range Control** is set to **On**, this feature will be disabled.

Dynamic Range Control

This feature allows control of audio compression for some digital TV programmes (MPEG-1 and MPEG-2 audio programmes are not supported).

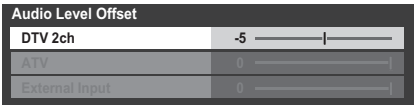
1. In the **SOUND** menu, press ▼ to highlight **Dynamic Range Control**.
2. Press ◀ or ▶ to select **On** or **Off**.

NOTE: This feature is disabled when **Dolby Volume** is set to **Low** or **High**.

Audio Level Offset

Sometimes there can be large changes in volume when switching from a DTV 5.1ch to a DTV 2ch, an ATV channel, or an external input. Using the **Audio Level Offset** *feature reduces these volume differences.*

1. Set the volume level usually used when watching a DTV 5.1ch programme.
2. Tune to a channel which is DTV 2ch, ATV or an external input.
3. In the **SOUND** menu, press ▼ to highlight **Audio Level Offset** and press **OK**.
4. Press ▼ to highlight an option, and then use ◀ or ▶ to adjust the volume level.



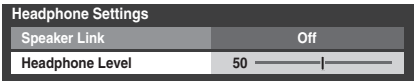
NOTE:
- The available item changes depending on the current input source. For example, while watching a DTV 2ch programme, only **DTV 2ch** is available and the other two items are greyed out in the menu. This allows you to easily adjust according to each condition.
- When watching a DTV 5.1ch programme, this feature is not available.

Headphone Settings

This setting is used to set the sound output when headphones are connected.

Speaker Link	Headphone	Speakers
On	Sound is output (◿ – + is available.)	No sound
Off	Sound is output (Headphone level menu is available.)	Sound is output (◿ – + is available.)

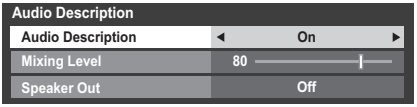
1. In the **SOUND** menu, press ▼ to highlight **Headphone Settings**, and then press **OK**.
2. Press ▼ to highlight **Speaker Link** and use ◀ or ▶ to select **On** or **Off**.
3. If you select **Off**, then highlight **Headphone Level** and use ◀ or ▶ to adjust the headphone sound.



Audio Description

Audio Description is an additional narrative sound track for visually impaired individuals to understand and enjoy the story line more fully. The letters AD will be displayed in the channel banner when programmes contain AD content. You can choose to hear sound from the TV speakers and the headphone output or only from the headphone output.

1. In the **SOUND** menu, select **Audio Description** and press **OK**.
2. Highlight **Audio Description**, and then press ◀ or ▶ to select **On**.



The **AD** button on the Remote can also be used to toggle the **Audio Description** feature between On and Off.

3. To adjust the level of the audio description sound to the main sound, highlight **Mixing Level** and use ◀ or ▶.
4. Highlight **Speaker Out**, and then press ◀ or ▶ to select **On** or **Off**.

On: sound from both the headphone output and speakers.
Off: sound from the headphone output.

See "Headphone Settings" to adjust the headphone sound.

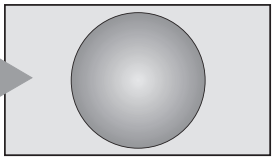
NOTE: This feature also applies to the sound from the DIGITAL AUDIO output and FIXED AUDIO output.

Widescreen viewing

Depending on the type of broadcast being transmitted, programmes can be viewed in a number of formats.

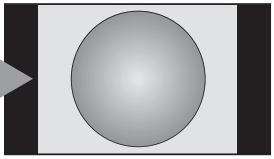
WIDE

Use this setting when watching a widescreen DVD, widescreen video tape or a 16:9 broadcast (when available). Due to the range of widescreen formats (16:9, 14:9, 20:9 etc.) black bars may be visible on the top and bottom of the screen.

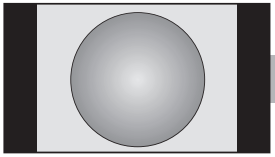


4:3

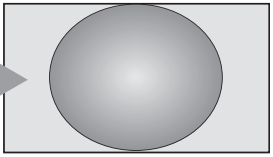
Use this setting to view a true 4:3 broadcast.



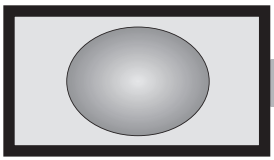
SUPER LIVE



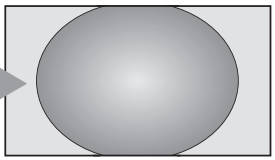
This setting will enlarge a 4:3 image to fit the screen by stretching the image horizontally and vertically, holding better proportions at the centre of the image. Some distortion may occur.



CINEMA

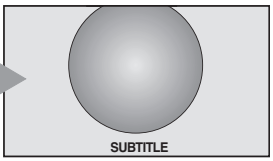


When watching 'all sides panel format' films/video tapes, this setting will eliminate or reduce the black bars at all sides of the screen by zooming in and selecting the image without distortion.



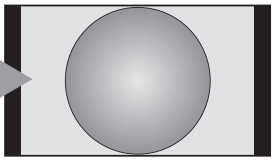
SUBTITLE

When subtitles are included on a letterbox format broadcast, this setting will raise the picture to ensure that all the text is displayed.

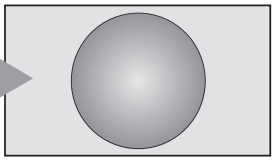


14:9

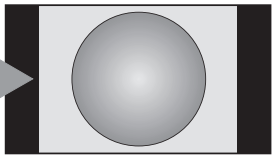
Use this setting when watching a 14:9 broadcast.



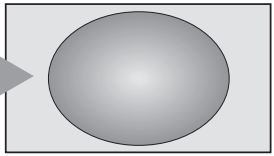
NATIVE *This setting will show the picture without overscan, i.e. WYSIWYG.*



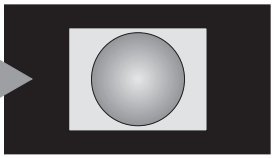
PC NORMAL *This setting will show the picture without overscan, i.e. WYSIWYG. This option is only available when watching a PC signal source via HDMI or PC terminal.*



PC WIDE *This setting will show the picture without overscan or side panels. This option is only available when watching a PC signal source via HDMI or PC terminal.*



Dot by Dot ***"Dot by Dot"*** *is a non-scaling display. Depending on the input signal format, the picture is displayed with side panels and/or bars at the top and bottom (e.g. VGA input source).*

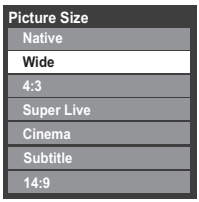


Press the button on the Remote to display the list of available widescreen formats.

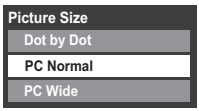
Press the button repeatedly to highlight the required format.

The **Quick Menu** feature can also be used to select **Picture Size**.

AV format



PC format



Using the special functions to change the size of the displayed image (i.e. changing the height/width ratio) for the purposes of public display or commercial gain may infringe on copyright laws.

Picture controls

Most of the picture controls and functions are available in both **digital** and **analogue** modes. *PLEASE NOTE: Features not available will be greyed out.*

Picture Mode

This television offers the choice of personalising the picture style.

AutoView, **Dynamic**, **Standard**, **Hollywood 1**, **Hollywood 2**, **Store**, **Game** *and* **PC** *are preset options and affect many features/settings within the television.*

NOTE:

- Because the **AutoView** mode automatically adjusts picture settings based on ambient light conditions and input signal content, the **Auto Brightness Sensor** and **Expert Mode** menus are greyed out when it is selected.
- **Store** mode is only available when **Location** is set to **Store**.
- **Game** mode is available in external input mode (other than aerial input). When you select **Game** mode, suitable widescreen formats will be selected.
- **PC** mode is available in RGB/PC input mode or HDMI input mode.

1 In the **PICTURE** menu, press ▼ to select **Picture Mode**.

2 Press ◀ or ▶ to select the picture mode you prefer and press **OK**.

NOTE: The picture mode you select affects the current input only. You can select a different picture mode for each input.

Picture preferences

*You can customize current picture mode settings as desired. For example, while selecting "***Dynamic***", if you change the following items, such as* **Backlight**, **Contrast**, **Brightness**, **Colour**, **Tint**, **Sharpness** *and the* **Advanced Picture Settings** *items, your new settings are saved for "***Dynamic***" picture mode.*

1 In the **PICTURE** menu press ▼ to select either **Backlight**, **Contrast**, **Brightness**, **Colour**, **Tint** or **Sharpness** and press **OK**.

2 Press ◀ or ▶ to adjust the settings.

Reset

This feature resets all picture settings to the factory settings except **Picture Mode**.

1 In the **PICTURE** menu, press ▼ to select **Reset** and press **OK**.

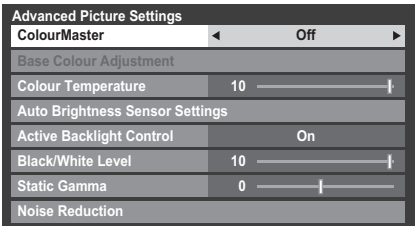
2 A confirmation message will appear. Press ◀ or ▶ to select **Yes** and press **OK**.

ColourMaster

When **ColourMaster** *is set to* **On,** *it allows the 'Base Colour Adjustment' feature to become available.*

1 In the **PICTURE** menu, press ▼ to select **Advanced Picture Settings** and press **OK**.

2 Press ▼ to select **ColourMaster**.



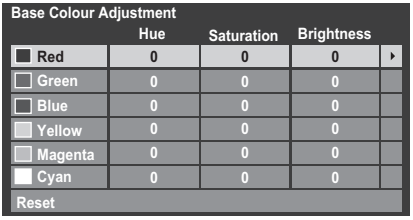
3 Press ◀ or ▶ to select **On** or **Off**, and then press **OK**.

Base Colour Adjustment

The **Base Colour Adjustment** *feature allows the adjustment of individual colours to suit personal preference. This can be useful when using an external source.*

1. In the **Advanced Picture Settings** menu, press ▼ to select **Base Colour Adjustment**, and then press **OK**.

2. Press ▲ or ▼ to select an option, and then press ▶ to move to the adjustment window.



3. Press ◀ or ▶ to select **Hue**, **Saturation** or **Brightness**, and then press ▲ or ▼ to adjust the settings as required.

4. Press **RETURN** to return to the previous menu.

   To return to the factory settings, select **Reset** and press **OK**.

Colour Temperature

Colour Temperature *increases the 'warmth' or 'coolness' of the picture by increasing the red or blue tint.*

1. In the **Advanced Picture Settings** menu, press ▼ to select **Colour Temperature** and press **OK**.

2. Press ◀ or ▶ to adjust the level.

   The adjustment range is 0 (warm) to 10 (cool).

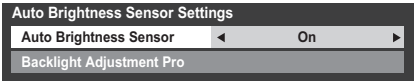
NOTE: If **Picture Mode** is set to **AutoView**, the adjustment range is -5 to +5.

Auto Brightness Sensor Settings

When the Auto Brightness Sensor is activated, it will automatically optimise the backlighting levels to suit ambient light conditions.

1. In the **Advanced Picture Settings** menu, press ▼ to select **Auto Brightness Sensor Settings** and press **OK**.

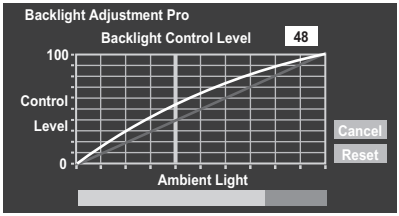
2. Press ◀ or ▶ to select **On** and press **OK**.



3. Press ▼ to select **Backlight Adjustment Pro** and press **OK**.

4. The **Backlight Adjustment Pro** window will appear. Press **OK** again to display the adjustment window.

5. Press ◀ or ▶ to select a point and press ▲ or ▼ to adjust the level.



6. Press **OK** to fix the adjustment.

   To cancel the adjustment when selecting a point, select **Cancel** and press **OK**.

   To return the adjustments of all points to the factory defaults, select **Reset** and press **OK**.

Active Backlight Control

When **Active Backlight Control** *is activated, it will automatically optimize the backlighting levels for dark scenes.*

1. In the **Advanced Picture Settings** menu, press ▼ to select **Active Backlight Control**.
2. Press ◀ or ▶ to select **On** or **Off**.

Black/White Level

Black/White Level *increases the strength of dark areas of the picture to improve the definition.*

1. In the **Advanced Picture Settings** menu, press ▼ to select **Black/White Level**.
2. Press ◀ or ▶ to adjust the level. The effect depends on the broadcast and is most noticeable on dark colours.

Static Gamma

The static gamma feature allows you to adjust the levels of black in the picture.

1. In the **Advanced Picture Settings** menu, press ▼ to select **Static Gamma**.
2. Press ◀ or ▶ to adjust the level.

MPEG NR – Noise Reduction

When watching a DVD, the compression may cause some words or picture elements to become distorted or pixelated. Using the **MPEG NR** *feature reduces this effect by smoothing out the edges.*

1. In the **Advanced Picture Settings** menu, press ▼ to select **Noise Reduction** and press **OK**.
2. Press ▼ to select **MPEG NR**.

3. Press ◀ or ▶ to select **Low**, **Middle**, **High** or **Off** to suit your preference.

DNR – Digital Noise Reduction

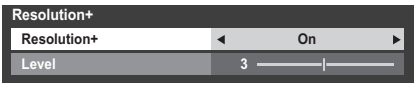
DNR *allows you to 'soften' the screen representation of a weak signal to reduce the noise effect.*

1. Select **DNR** from the **Noise Reduction** menu.
2. Use ◀ or ▶ to select **Low**, **Middle**, **High**, **Auto** or **Off**. The differences may not always be noticeable (for the best result use lower settings as picture quality can be lost if the setting is too high).

Resolution+

The **Resolution+** *feature allows you to adjust the clarity levels for your desired picture settings.*

1. In the **Advanced Picture Settings** menu, press ▼ to select **Resolution+** and press **OK**.
2. In the **Resolution+** field, select **On**.



3. Press ▼ to highlight **Level**, and then press ◀ or ▶ to adjust the level.

NOTE:
- This feature may not work properly depending on the content.
- Adjustable range varies according to the Picture Mode you set.
- Noise may appear in the picture depending on the device connected to the TV (e.g. a device with a specific enhancer function).

Cinema Mode

If there are lines or jagged edges in the film or programme being viewed, selecting Cinema Mode can help correct this by smoothing out the picture.

1. In the **Advanced Picture Settings** menu, press ▼ to select **Cinema Mode**.
2. Press ◀ or ▶ to select **On** or **Off**.

NOTE:
- When a DVD with subtitles is being played, this mode may not work correctly.
- When **Picture Mode** is set to **Game**, this feature will be grayed out and automatically set to **Off**.

Resetting the advanced picture settings

This feature allows you to reset the current **Advanced Picture Settings** *to the default values.*

1. In the **Advanced Picture Settings** menu, press ▼ to select **Reset**.
2. Press **OK**.

Expert Picture Settings

Test Pattern

When the test pattern is on screen, you can navigate in the Picture submenus and adjust picture settings without removing the image.
When you move to a non-Picture menu, or close the menus, regular video will be restored.

1. In the **Picture** menu, press ▲ or ▼ to select **Expert Picture Settings**, and then press **OK** to display **Expert Picture Settings** menu.
2. Press ▲ or ▼ to select **Test Pattern**.
3. Press ◀ or ▶ to select **On**.
4. Press **EXIT** to close.

RGB Filter

This feature individually enables or disables the red, green, and blue components of the picture to allow for more accurate adjustment of each colour.

1. In the **Expert Picture Settings** menu, press ▲ or ▼ to select **RGB Filter**, and then press **OK**.
2. Press ▲ or ▼ to select **Red**, **Green** or **Blue** to adjust.
3. Press ◀ or ▶ to select **On**.
4. Press ▼ to select **Colour** or **Tint**, and then press ◀ or ▶ to adjust.
5. Press **EXIT**.

NOTE: It is not possible to turn off all three colours simultaneously.

White Balance-Window Display

This feature displays a special Window Pattern to be used when adjusting white balance with a measuring device.

1. In the **Expert Picture Settings** menu, press ▲ or ▼ to select **White Balance**, and then press **OK**.
2. Press ▲ or ▼ to select **Window Display** and press ◀ or ▶ to select **On**.
3. Press **EXIT** to close.

White Balance-Setting Type

You can choose from two types of White Balance adjustment.

1. In the **Expert Picture Settings** menu, press ▲ or ▼ to select **White Balance**, and then press **OK**.
2. Press ▲ or ▼ to select **Setting Type** and press ◀ or ▶ to select **2P** or **10P**.

White Balance-2P White Balance

1. Press ▼ to select **2P White Balance**.
2. Press ▲ or ▼ to select **Red-Offset**, **Green-Offset**, **Blue-Offset**, **Red-Gain**, **Green-Gain**, or **Blue-Gain**.
3. Press ◀ or ▶ to adjust.

White Balance-10P White Balance

1. Press ▼ to select **10P White Balance.**
2. Press ▲ or ▼ to select **IRE**, **Red**, **Green**, or **Blue**.
3. Press ◀ or ▶ to adjust.

NOTE: The adjustments made for Red / Green / Blue are stored separately for each IRE setting. (There are ten IRE settings from 10 to 100.)

White Balance-Copy to All Inputs

This feature copies White Balance on the current input to all other inputs that are set to the same picture mode. Individual settings that are not allowed for a specific input will not be copied.

1. In the **Expert Picture Settings** menu, press ▲ or ▼ to select **White Balance** and then press **OK**.
2. Press ▲ or ▼ to select **Copy to All Inputs**, and then press **OK**.

   A confirmation screen appears.
3. Select **Yes**, and then press **OK**.

Resetting to the factory defaults

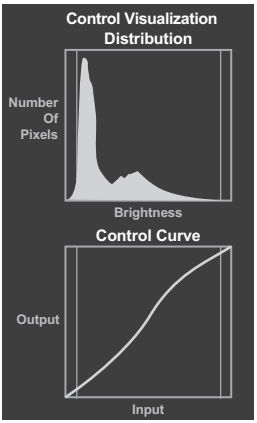
1. In the **Expert Picture Settings** menu, press ▲ or ▼ to select **Reset**, and then press **OK**.

   A confirmation screen appears.
2. Select **Yes**, and then press **OK**.

Control Visualization

This feature displays the brightness histogram and control curve of the current video signal.

1. In the **PICTURE** menu, press ▼ to select **Control Visualization** and press **OK**. The histogram window will appear.



2. Press **RETURN** to return to the previous menu.

Automatic Format (Widescreen)

When this television receives a true Widescreen picture and **Auto format** *is* **On**, *it will automatically be displayed in Widescreen format irrespective of the television's previous setting.*

1. Press **MENU** and ◀ or ▶ to select the **PREFERENCES** menu.
2. Press ▼ to select **Display Settings** and press **OK**.
3. Press ▼ to select **Auto Format**, and then press ◀ or ▶ to select **On** or **Off**.

4:3 Stretch

When **4:3 Stretch** *is activated, the size switching system changes 4:3 programmes into full screen picture.*

1. In the **PREFERENCES** menu, press ▼ to select **Display Settings**, and press **OK**.
2. Press ▼ to select **4:3 Stretch**, and then press ◀ or ▶ to select **On** or **Off**.

Picture Position

The picture position may be adjusted to suit personal preference and can be particularly useful for external inputs.

1. In the **PREFERENCES** menu, highlight **Display Settings** and press **OK**.

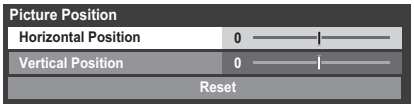
2. In the **Display Settings** menu, highlight **Picture Position**.

3. Press **OK** to view the options available for the picture format that has been selected.

4. Press ▲ and ▼ to select an option, and then ◀ or ▶ to adjust the settings.

   The options differ depending on the currently selected widescreen format and the input signal.

   In **Cinema** mode:



   To return to the original factory settings, select **Reset** in the **Picture Position** menu and press **OK**.

Picture still

This feature is used to hold a still image on the screen.

1. Press ▼ to hold an image on the screen, and press ▼ again to cancel.

Blue Screen

*When **Blue Screen** is selected, the screen will turn blue and the sound will be muted on analogue channels and external input modes when no signal is received.*

NOTE: Some external input sounds may not be muted.

1. In the **PREFERENCES** menu, press ▼ to select **Blue Screen**.

2. Press ◀ or ▶ to select **On** or **Off**.

HDMI Information Display

When the HDMI Information Display feature is On and you are watching an HDMI input source, pressing the i+ button displays the HDMI signal information banner.

1. In the **PREFERENCES** menu, press ▼ to select **HDMI Information Display**.

2. Press ◀ or ▶ to select **On**.

   HDMI signal information is as follows:
   Resolution, Scan Type, Frame Rate*, Aspect, Bit Depth, Colour Space, RGB/YUV, Chroma Format, and Content Type (if available).

   * If the HDMI input source is interlaced, "**Field Rate**" will be displayed instead of "**Frame Rate**".

Using your home network

This TV is a DLNA CERTIFIED™ Player and Renderer. This TV can play digital content stored on a DLNA CERTIFIED™ product with server function.
If you want to use this TV as a DLNA CERTIFIED™ Player or Renderer, you will have to configure the network on your TV (*see page 11*).

If you want to use your home network, you will have to configure the network on your TV. (*see page 11*)
Change the network settings if necessary (see "Setting up the Network" on page 32).

When using a wireless home network:

Wireless Interoperability

The TOSHIBA Dual Band WLAN Adaptor is designed to be interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS)/Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:

- The IEEE 802.11 Standard on Wireless LANs (Revision a/b/g/n), as defined and approved by the Institute of Electrical and Electronics Engineers.
- The TOSHIBA Dual Band WLAN Adaptor is intended for use with the RL85 series LCD TV's and should not be used with any other devices.

  Use of the WLAN Adaptor in other USB products may result in damage to the WLAN Adaptor and or the equipment. Such use will void any warranty that may otherwise apply, and TOSHIBA will have no liability for any damage that may result from such use.

CAUTION

Bluetooth™ and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth™ and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection.

If you should experience any such problem, immediately turn off either your Bluetooth™ or Wireless LAN device.

Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage.

Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Wireless LAN and your Health

Wireless LAN products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless LAN devices, however, is far less than the electromagnetic energy emitted by wireless devices such as mobile phones.

Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of Wireless LAN may be restricted by the proprietor of the building or responsible representatives of the organization. Such restrictions may apply in environments where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific organization or environment, you are encouraged to ask for authorization to use the Wireless LAN device prior to turning on the equipment.

This Dual Band Wireless LAN Adaptor may be operated in the following countries:

AT	Austria	**IS**	Iceland
BE	Belgium	**LI**	Liechtenstein
CH	Switzerland	**LT**	Lithuania
CY	Cyprus	**LU**	Luxembourg
CZ	Czech Republic	**LV**	Latvia
DE	Germany	**MT**	Malta
DK	Denmark	**NL**	Netherlands
ES	Spain	**NO**	Norway
FI	Finland	**PL**	Poland
FR	France	**PT**	Portugal
GB	United Kingdom	**SE**	Sweden
GR	Greece	**SI**	Slovenia
EE	Estonia	**SK**	Slovakia
HU	Hungary	**BG**	Bulgaria
IT	Italy	**RO**	Romania
IE	Ireland	**TR**	Turkey

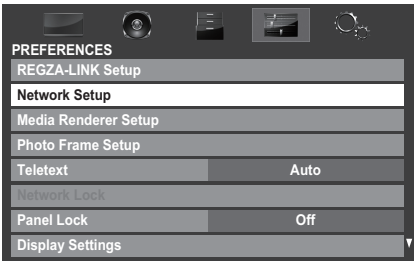
How to use this Dual Band Wireless LAN Adaptor

- If this device is going to be operated in the frequency range of 5.15 GHz to 5.35 GHz, it is restricted to indoor use.
- If this device is going to be operated for 802.11 b/g/n function in the frequency range of 2.454 GHz to 2.4835 GHz in France, it is restricted to indoor use.
- A general authorization is required for using this device outdoors or in public places in Italy.
- This device is NOT ALLOWED to be used in the geographical area within a radius of 20km from the centre of Ny-Alesund in Norway.

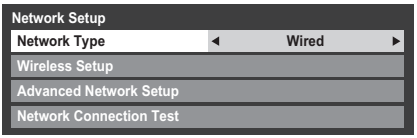
Setting up the Network

You can select the Network Type.

1 In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.



2 Press ▲ or ▼ to highlight **Network Type**, and then press ◀ or ▶ to select **Wired** or **Wireless**.



NOTE: If the Dual Band WLAN Adaptor is not connected, Wireless cannot be selected.

3 If you selected **Wired**, see "Advanced Network Setup" on page 34.

Wireless Setup

NOTE:

- This feature is grayed out when the Dual Band WLAN Adaptor is not connected or Network Type is set to Wired.
- Continued connection of AP (Access Point) is not guaranteed. The connection may be disconnected while watching TV.
- Do not remove the Dual Band WLAN Adaptor when **Network Type** is set to **Wireless** or wireless communication is active.

There are 3 methods for Wireless Setup:

Easy Setup (WPS)

If the AP supports WPS, this method can be used.

- WPS is an industry standard designed to make connection of wireless LAN equipment and security setup easy. WPS will automatically configure all wireless settings.

Assisted Setup (setup by using the AP's notification information)

Network Name, Authentication, and Encryption are decided based on information from the AP. You will manually set the Security Key.

Manual Setup (manual input of all settings)

Easy Setup using PBC (Push Button Configuration)

1 In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.

2 Press ▲ or ▼ to highlight **Wireless Setup**, and press **OK**.

3 Press ▲ or ▼ to highlight **Easy Setup**, and press **OK**.

4 Press ◀ or ▶ to select **PBC**.

5 Press ▼ to highlight **Start Scan**, and press **OK**.

6 Following the on-screen instructions, push the appropriate button on your AP.

7 When a window reporting that the setup is complete appears, press **OK**.

To cancel searching for the AP:

Press **RETURN** while searching for the AP. A message will appear, and then press ◀ or ▶ to select **Yes** and press **OK**.

Easy Setup using PIN (Personal Identification Number)

1 In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.

2 Press ▲ or ▼ to highlight **Wireless Setup**, and press **OK**.

3 Press ▲ or ▼ to highlight **Easy Setup**, and press **OK**.

4 Press ◀ or ▶ to select **PIN**.

5 Press ▼ to highlight **Start Scan**, and press **OK**.

6 Press ▲ or ▼ to select the desired AP and press **OK**.

NOTE: Check the MAC address on the label of the AP or in the manual, and select your AP.

7 When the PIN code window appears, enter the displayed PIN into your AP, and then press **Next** to continue the PIN Setup. When a message displays to report that the setup is complete, press **OK**.

To cancel searching for the AP:

Press **RETURN** while searching for the AP. A message will appear; then, press ◀ or ▶ to select **Yes** and press **OK**.

Assisted Setup

1. In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.
2. Press ▲ or ▼ to highlight **Wireless Setup**, and press **OK**.
3. Press ▲ or ▼ to highlight **Assisted Setup**, and press **OK**.
4. Press ▲ or ▼ to select the desired AP and press **OK**.

   NOTE: Check the MAC address on the label of the AP or in the manual, and select your AP.
5. Highlight **Security Key** and press **OK**. The Software Keyboard window will appear.
6. Input the Security Key by using the Software Keyboard (*see page 36*). To save your setting, press the **BLUE** button.

   NOTE:
   - The Security Key must adhere to these conditions:
     - TKIP/AES: 8-63 ASCII or 64 Hex characters
     - WEP: 5 or 13 ASCII or 10 or 26 Hex characters
   - There is only one key ID to set for WEP encryption.
7. Highlight **Done**, and then press **OK**.

   NOTE: If **Network Name** is not displayed, see step 4 and 5 in **Manual Setup** below to set **Network Name** before pressing **Done**.

NOTE: Settings are not saved if **RETURN** is pressed before **Done** is selected.

Manual Setup

1. In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.
2. Press ▲ or ▼ to highlight **Wireless Setup**, and press **OK**.
3. Press ▲ or ▼ to highlight **Manual Setup**, and press **OK**.
4. Press ▲ or ▼ to highlight **Network Name**, and press **OK**. The Software Keyboard window will appear.
5. Input the Network Name by using the Software Keyboard (*see page 36*). To save your setting, press the **BLUE** button.
6. Press ▲ or ▼ to highlight **Authentication**, and then press ◀ or ▶ to select **Open System**, **Shared Key**, **WPA-PSK** or **WPA2-PSK**.
7. Press ▲ or ▼ to highlight **Encryption**, and then press ◀ or ▶ to select **None**, **WEP**, **TKIP** or **AES**.

   NOTE:
   - Certain encryption types are only compatible with specific authentication types.
     - When Authentication is Open System, only WEP or None is compatible.
     - When Authentication is Shared Key, only WEP is compatible.
     - When Authentication is WPA-PSK or WPA2-PSK, only TKIP or AES is compatible.
   - When incompatible Authentication/Encryption pairings are detected, a warning message will be displayed, and no connection attempt will be made until the incompatibility is resolved.
   - There is only one key ID to set for WEP encryption.
8. Press ▲ or ▼ to highlight **Security Key**, and press **OK**.
9. Input the Security Key by using the Software Keyboard (*see page 36*). To save your setting, press the **BLUE** button.

   NOTE: This item is grayed out when **Encryption** is **None**.
10. Highlight **Done**, and then press **OK**.

    NOTE: When **Encryption** is **None**, a message will appear. Press ◀ or ▶ to select **Yes** and press **OK**.

NOTE: Settings are not saved if **RETURN** is pressed before **Done** is selected.

Enhanced 11n

When **Enhanced 11**n is set to **On**, these features are available.

- Dual Channel (40MHz)
- GF (Green Field)

NOTE: In addition, some other optional 11n features will be enabled.

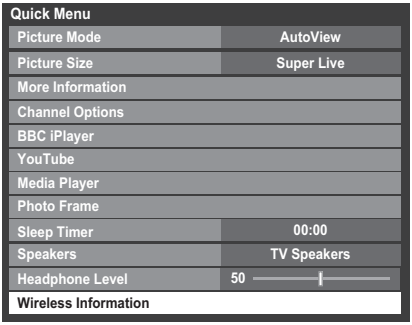
1. In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**. Highlight **Wireless Setup** and press **OK**.
2. Press ▲ or ▼ to highlight **Enhanced 11n**, and then press ◀ or ▶ to select **On**.

Wireless Information

The settings configured in Wireless Setup can be confirmed.

1. Press **QUICK** to open the **Quick Menu**.

2. Press ▲ or ▼ to select **Wireless Information** and press **OK**.



3. When the AP connection succeeds, a Wireless Information window will appear.

NOTE: Press the **RED** button to scan for all available APs.

Item	Description
Status	**Connected** is displayed when the TV is connected with the AP. **Disconnected** is displayed when the TV is not connected with the AP.
Signal	Connection signal strength with AP (**STRONG**/**MEDIUM**/**WEAK**)
Speed	Link with AP
Mode	Working mode (11a, 11b, 11g, 11n)
Channel	Channel in use (1-165)
Network Name	SSID set
Authentication	Authentication set
Encryption	Encryption set
Security Key	Security Key set
AP MAC Address	The AP's MAC address is displayed when the TV is connected with the AP.
USB MAC Address	The MAC address of the USB (Dual Band WLAN Adaptor) is displayed.
DHCP	**Enabled** is displayed when using DHCP. **Disabled** is displayed when not using DHCP.
IP Address	The TV's IP address
Subnet Mask	Value of the Subnet Mask
Default Gateway	Address of the Default GATEWAY
DNS	Address of the DNS

NOTE: Even if an AP for IEEE 802.11n is used when **Encryption** is set to **WEP** or **TKIP**, the Speed value might be low. It is recommended that **Encryption** be changed to **AES** (see "Manual Setup" on *see page 33*).

Notes on wireless LAN environment:

- The function of all IEEE802.11 is not supported.
- The ad-hoc mode is not supported.
- It is recommended to use IEEE 802.11a or IEEE 802.11n on 5 GHz for audio and SD video streaming.
- It is recommended to use IEEE 802.11n on 5 GHz for HD video streaming.
- It is recommended that the encoding rate for streaming video content is 20 Mbps or less.
- It is not recommended to use 2.4 GHz for audio and video streaming.
- Content playback may be interrupted by various surrounding interference.

Advanced Network Setup

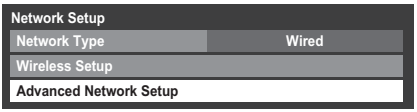
NOTE:
- When the DHCP function of the router connected with this TV is On, you can set **Auto Setup** to **On** or **Off**. (This should usually be set to **On**.)
- When the DHCP function of the router is Off, set **Auto Setup** to **Off**, and set the IP Address manually.

IP Address Setup

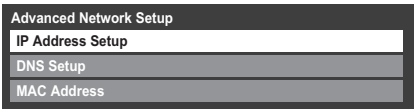
Auto Setup:

1. In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.

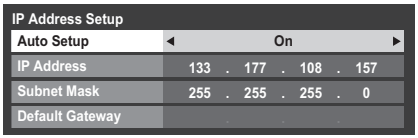
2. Press ▲ or ▼ to highlight **Advanced Network Setup**, and press **OK**.



3. Press ▲ or ▼ to highlight **IP Address Setup**, and press **OK**.



4 Highlight **Auto Setup**, and then press ◀ or ▶ to select **On**.



NOTE: Other items will be grayed out when **Auto Setup** is set to **On**.

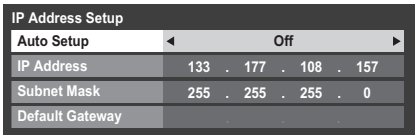
Manual Setup:

1 In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.

2 Press ▲ or ▼ to highlight **Advanced Network Setup**, and press **OK**.

3 Press ▲ or ▼ to highlight **IP Address Setup**, and press **OK**.

4 Highlight **Auto Setup**, and then press ◀ or ▶ to select **Off**.

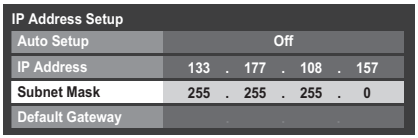


5 Press ▲ or ▼ to highlight **IP Address**.

6 Press ◀ or ▶ to highlight the field you want to change, and then use the number buttons to input the IP address. To save the setting, press **OK**.

NOTE: IP address field numbers must be between 0 and 255. After each field number has been set, press **OK** to store the entire address. If the entire IP Address is invalid, a warning message will appear after **OK** is pressed.

7 Press ▲ or ▼ to highlight **Subnet Mask**, and edit in the same way as IP Address.



8 Press ▲ or ▼ to highlight **Default Gateway**, and edit in the same way as IP Address.

NOTE: If you manually set the IP address, you must not use the same IP address for any other device. The IP address you use should be a private address.

DNS Setup

NOTE: When the DHCP function of the router connected to this TV is Off, set Auto Setup to Off, and manually set the DNS address(es). Your internet service provider should have provided these to you.

Auto setup:

1 In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.

2 Press ▲ or ▼ to highlight **Advanced Network Setup**, and press **OK**.

3 Press ▲ or ▼ to highlight **DNS Setup**, and press **OK**.

4 Highlight **Auto Setup**, and then press ◀ or ▶ to select **On**.

NOTE: Other items will be grayed out when **Auto Setup** is set to **On**.

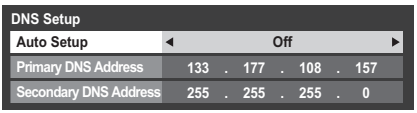
Manual setup:

1 In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.

2 Press ▲ or ▼ to highlight **Advanced Network Setup**, and press **OK**.

3 Press ▲ or ▼ to highlight **DNS Setup**, and press **OK**.

4 Highlight **Auto Setup**, and then press ◀ or ▶ to select **Off**.



5 Press ▲ or ▼ to highlight **Primary DNS Address**.

6 Press ◀ or ▶ to highlight the field you want to change, and then use the number buttons to input the Primary DNS Address. To save the setting, press **OK**.

NOTE: DNS address field numbers must be between 0 and 255. If you input an incompatible number and press **OK**, the field number will reset to the previous value.

7 Press ▲ or ▼ to highlight **Secondary DNS Address**, and edit in the same way as Primary DNS Address.

MAC Address

You can view the fixed MAC address for the TV and for the Dual Band WLAN Adaptor, if one is installed.

1. In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.
2. Press ▲ or ▼ to highlight **Advanced Network Setup**, and press **OK**.
3. Press ▲ or ▼ to highlight **MAC Address**, and press **OK**.

Network Connection Test

This function checks the Internet connectivity.

1. In the **PREFERENCES** menu, highlight **Network Setup** and press **OK**.
2. Press ▲ or ▼ to highlight **Network Connection Test**, and press **OK**.

   A message will appear to indicate if the connection was successful or if it could not be completed.

   NOTE: The result of Network Connection Test does not always guarantee the connection. Depending on the situation, YouTube may not be able to be used.

To cancel the Network Connection Test:

1. Press **RETURN** while searching for the Internet connection.

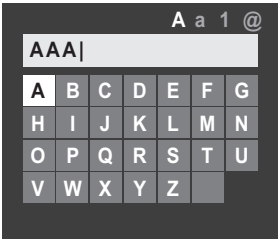
Using the software keyboard

You can enter text by using the Software Keyboard. The Software Keyboard window will appear when you press **OK** on a field that accepts character input.

To enter text using the software keyboard:

1. Highlight the desired character on the on-screen software keyboard.
2. Press **OK**.
3. Repeat steps 1 and 2 until you have entered all desired text.
4. Press the **BLUE** button to close the software keyboard and return to the previous screen.

   NOTE: If **RETURN** is pressed, changes are not saved and the software keyboard window is closed. The text will remain as it was before starting the keyboard.



Input operation on the remote control:

Button	Description
OK	Inputs the selected character.
0-9	Inputs the number directly.
▲▼◀▶	Moves the character highlight.
◀◀▶▶	Moves the cursor.
⏮	Moves the cursor to the head of a character string.
⏭	Moves the cursor to the end of a character string.
RED	Deletes 1 character to the left of the cursor.
GREEN	Cycles through upper case, lower case, numbers, and symbols, if available.
YELLOW	Chooses an accented version of the current letter, if applicable.
BLUE	Saves changes and closes the Software Keyboard window.
RETURN	Closes the Software Keyboard window without saving changes.

Setting up the Media Renderer feature

Terminology:

DMS: DLNA CERTIFIED™ Server

DMR: DLNA CERTIFIED™ Renderer

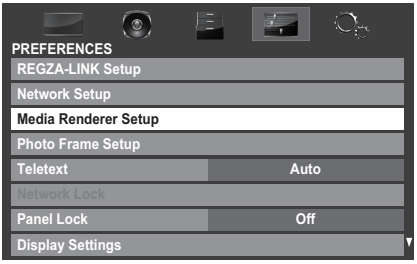
DMC: DLNA CERTIFIED™ Controller

The TV can be configured as a DMR. When operating as a DMR, the TV displays content provided by a DMS. The selection of the media is done by the DMC - the TV does not select the input. The TV can play photo, movie, or audio files when operating as a DMR.

Installation

You can configure the DMR settings individually, or use Installation mode to be prompted for each setting in order.

1. In the **PREFERENCES** menu, highlight **Media Renderer Setup** and press **OK**.



2. Press ▲ or ▼ to highlight **Installation**, and press **OK**.
3. Press ◀ or ▶ to select **On**, and press **OK**.
4. If you want to change the device name as a Renderer, highlight the **Device Name** field and press **OK**. The Software Keyboard window will appear.
5. Input the Device Name by using the Software Keyboard (*see page 36*). Press the **BLUE** button.

   NOTE: The Device Name can be up to 127 characters long.
6. Highlight **Done**, and then press **OK** to save your setting.
7. If you want to change the password, press ◀ or ▶ to select **Yes**, and then press **OK**.
8. Change the password by using the Software Keyboard (*see page 36*), and then press the **BLUE** button.

   NOTE: The Web Password can be up to 15 characters long.
9. Highlight **Done**, and then press **OK**.
10. If you want to limit access from unexpected DMCs, press ◀ or ▶ to select **On**, and then press **OK**.
11. If you want to proceed with registration of DMCs, press ◀ or ▶ to select **Yes**, and then press **OK**.
12. Press ▲ or ▼ to highlight the item you want to accept, and press **OK**. A check will appear in the box. To remove the check, press **OK** again.
13. Press ▶ to highlight **Done**, and then press **OK**.
14. The **Maximum Volume Setup** window appears. Press ◀ or ▶ to adjust to the desired volume. Then, press **OK**.

Media Renderer

1. In the **PREFERENCES** menu, highlight **Media Renderer Setup** and press **OK**.
2. Press ▲ or ▼ to highlight **Media Renderer**, and then press ◀ or ▶ to select **On** or **Off**.

Device Name Setup

The TV's DMR device name can be changed. The device name can be confirmed from the DMC.

1. In the **PREFERENCES** menu, highlight **Media Renderer Setup** and press **OK**.
2. Press ▲ or ▼ to highlight **Device Name Setup**, and press **OK**.
3. Highlight the **Device Name** field and press **OK**. The Software Keyboard window will appear.
4. Input the Device Name by using the Software Keyboard (*see page 36*). Press the **BLUE** button.

   NOTE: The Device Name can be up to 127 characters long.
5. Highlight **Done**, and then press **OK** to save your setting.

Web Password Setup

This setup determines the password that is necessary for the DMC to access built-in web pages on the DMR.

1. In the **Media Renderer Setup** menu, highlight **Web Password Setup**, and press **OK**. Highlight the **Password** field and press **OK**. The Software Keyboard window will appear.

2. Change the password by using the Software Keyboard (*see page 36*), and then press the **BLUE** button.

   NOTE:
   - The Web Password can be up to 15 characters long.
   - Only the password can be changed. User ID cannot be changed.

3. Highlight **Done**, and then press **OK**.

NOTE:
- Some DMCs can view or modify the device name of the DMR.
- Depending on the TV's state, it may not be possible to set the device name from the web page.
- Review the owner's manual of the DMC to confirm the method for accessing web pages.

Media Controller Setup

You can limit which DMC can control this TV.
If Access Control is enabled, only those DMCs with a check will be allowed to control the TV.

1. In the **Media Renderer Setup** menu, highlight **Media Controller Setup**, and press **OK**.

2. Press ▲ or ▼ to highlight **Access Control**, and then press ◀ or ▶ to select **On**.

3. Press ▲ or ▼ to highlight **Select Media Controller**, and press **OK**.

4. Press ▲ or ▼ to highlight the item you want to accept, and press **OK**. A check will appear in the box.

   To remove the check, press **OK** again.

5. Press ▶ to highlight **Done**, and then press **OK**.

NOTE:
- You can select up to 8 DMC devices.
- If you would not like to limit the DMCs for this TV, set **Access Control** to **Off**.
- Devices other than DMCs may be displayed in the list. Confirm the MAC address of the DMC and set it.

Maximum Volume Setup

This feature allows you to set the maximum volume of the TV when it receives volume operation commands from a DMC.

1. In the **Media Renderer Setup** menu, highlight **Maximum Volume Setup**, and press ◀ or ▶ to adjust to the desired volume.

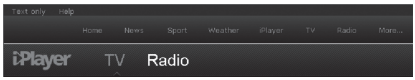
NOTE:
- The TV's remote control can set volume regardless of the value of **Maximum Volume Setup**.
- When DMR playback ends, the TV volume will return to the value in effect when DMR playback was started.

Using BBC iPlayer

You can watch and listen to great BBC programmes from the last 7 days on BBC iPlayer.

NOTE:
- You need to configure a home network before using this feature (see page 11).
- If **Network Lock** is set to **On**, it will be necessary to enter your four-digit PIN code in order to access network features (see page 55).

1 In the **APPLICATIONS** menu, highlight **BBC iPlayer** and press **OK** to open the browser.



Remote Key	On Browser	While Playback
EXIT	To exit	To exit
▲	To move up	–
▼	To move down	–
◀	To move left	To move Slider
▶	To move right	To move Slider
OK	To select	–
i+	–	To display Banner
RETURN	To back	To back
■	–	To stop and go back
▶	–	If paused, to play
II/II▶	–	To pause

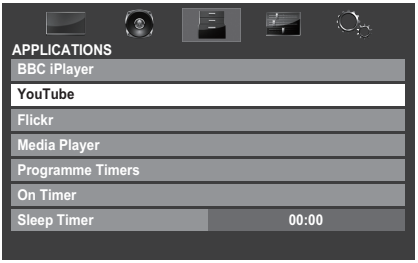
- This service is not available outside the UK.
- This TV may not be able to operate some functions that can be found on the PC version of BBC iPlayer.
- Depending on network environment and the usage situation, content may be difficult to view.
- To get IPTV services you will need a minimum actual broadband speed of 1Mbps, or 2Mbps for high quality viewing.

Using YouTube™

YouTube is a video-sharing service managed by YouTube, LLC.
This TV allows you to view YouTube content.

NOTE:
- You need to configure a home network before using this feature (see page 11).
- If **Network Lock** is set to **On**, it will be necessary to enter your four-digit PIN code in order to access network features (see page 55).

1 In the **APPLICATIONS** menu, highlight **YouTube** and press **OK**.



2 Press ▲, ▼, ◀ or ▶ to select the file you want to view, and press **OK**.

To close YouTube:

1 Press **EXIT**.

NOTE:
- This TV may not be able to perform all of the same operations as a computer.
- Depending on the network environment and use case, you may experience difficulty viewing content.
- Though the same volume value, actual volume might be greatly different depending on contents.
- It may take time for the TV to load and begin playing back content.
- Service content and the look and feel of the interface may be changed at any time without prior notice.

Using the Function Menu

The Function Menu provides easy access to functions that are commonly used.

1. Press the **BLUE** button while displaying YouTube.

   The Function menu window will appear.

2. Press ◀ or ▶ to select the desired icon, and press **OK**.

Item	Description
Back	Returns to the previous page.
Forward	Moves to the forward page.
Reload/ Abort	Updates the displayed page./ Aborts update (✕ is displayed while reading, and ↻ is displayed in other case.)
Home	Returns to the top page of YouTube.
Pointer	Switches the pointer On/Off or drag mode.
Menu	Switches the frame or sets various settings.

Switching the pointer

The tool that operates the screen can be changed to pointer or drag mode.

1. From the Function menu, press ◀ or ▶ to select **Pointer**, and then press **OK**.

2. If you select ↖, see "To use the Pointer: ON" on this page. If you select ✋, see "To use the Drag Mode" on this page.

To use the Pointer: ON:

1. Press ▲ or ▼ to select **Pointer: ON**, and press **OK**.
   - ↖ will appear.

2. Press ▲, ▼, ◀ or ▶ to the place where ↖ changes to ☝, and then press **OK**.

NOTE: When **Pointer: OFF** is selected and ▲, ▼, ◀ or ▶ is pressed, the highlight moves to linked areas.

To use the Drag Mode:

1. Press ▲ or ▼ to select **Pointer: ON**, and press **OK**.

2. Press the **BLUE** button.

3. From the Function menu, press ◀ or ▶ to select **Pointer**, and then press **OK**.

4. Press ▲ or ▼ to select **Drag Mode**, and press **OK**.
   - ✋ will appear.

5. Press **OK**, and then ✋ changes to ✊.

6. Press ▲, ▼, ◀ or ▶ to move the selected item in the desired place.

Switching the frame

1. From the Function menu, press ◀ or ▶ to select **Menu**, and then press **OK**.

2. Press ◀ or ▶ to select **Page Tasks**.

3. Highlight **Switch Frames**, and press **OK**.

Setting the view feature

1. From the Function menu, press ◀ or ▶ to select **Menu**, and then press **OK**.

2. Press ◀ or ▶ to select **View**.

3. Press ▲ or ▼ to select the desired item, and press **OK**.

4. Press ▲ or ▼ to select the desired setting, and press **OK**.

Item	Settings
Display Mode	**Normal**: Displays YouTube page with the size as it is. **Just-Fit Rendering**: Displays YouTube page at a size that has been adjusted to precisely fit the width of your TV.
Text Size	Changes the font size of the screen. Select from **Largest**, **Large**, **Medium**, **Small** or **Smallest**. **NOTE:** This font size is effective only for the page.
Advanced Settings	See the next column.
Page Information	Displays the information of the page you are viewing.
Server Certificates	Displays the server certification.

If you select Advanced Settings:

1. Press ▲, ▼, ◀ or ▶ to select the setting items, and press **OK**. A check will appear in the box. To remove the check, press **OK** again.

2. Press ▲, ▼, ◀ or ▶ to select OK field, and press **OK**.

Item	Description
Image	Sets display/non-display of images.
Table	Sets effect/non-effect of tables.
CSS	Sets effect/non-effect of CSS.
Pop-up window	Sets effect/non-effect of pop-up windows.
Animation	Sets display/non-display of animations.
JavaScript	Sets effect/non-effect of JavaScript.
Word wrap	Sets effect/non-effect of Word Wrap. If Word Wrap is enabled, a word not finished at the end of a line is shifted to the next line.
Rapid-Render	Sets effect/non-effect of Rapid-Render. If Rapid-Render is enabled, texts and links are displayed first, and the images and the tables, etc. are displayed afterward. The highlight can be moved with the text and the link displayed.

Setting other features

1. From the Function menu, press ◀ or ▶ to select **Menu**, and then press **OK**.

2. Press ◀ or ▶ to select **Settings**.

3. Press ▲ or ▼ to select the desired item, and press **OK**.

4. Press ▲ or ▼ to select the desired setting, and press **OK**.

Item	Settings
Security	When jumping from a protected page to an unprotected page, the message is displayed when the check is applied to **Notify of secure/non-secure page changes**. Apply the check to select SSL version from **SSL Version to use (SSL2.0, SSL3.0, TSL1.0)**. A content confirmation of the certification and a setting effect/non-effect can be done in **Root Certificates** and **CA Certificates** shown below.
Cookies	**Accept all**: Cookie is received, and it records in this TV. **Reject all**: Cookie is not received. **Prompt before accepting**: When Cookie is received, a message window will be displayed.
Delete Cookies	Deletes all recorded Cookies.
Cache	**Use cache**: When the check is applied to this, cache is used. **Delete All Cache Data**: Deletes all the cache preserved in the television.
Browser Information	Displays the information on a browser.

NOTE:

- Cookie is the technical information that a website leaves in this TV so that the website will recognize you when you use it again.
- Cache is a system used to shorten the display time by checking the past data preserved in this television when a page that you viewed before is seen again.

To confirm Root Certificates or CA Certificates:

1. Press ▲ or ▼ to select **Security** in step3 in **Setting other features**.

2. Press ▲, ▼, ◀ or ▶ to select **Root Certificates** or **CA Certificates**, and press **OK**.

3. Press ▲ or ▼ to select the desired certificate.
   - When **OK** is pressed, a detailed information window will appear.
   - When the **BLUE** button is pressed, **Disable** or **Enable** bar will appear. It changes whenever **BLUE** button is pressed.

4. Press **RETURN**.

Flickr

"Flickr" is a online photo sharing service. View photos that have been shared online by accessing this feature from your TV.

NOTE:
- You need to configure a home network before using this feature (see page 11).
- If **Network Lock** is set to **On**, it will be necessary to enter your four-digit PIN code in order to access network features (see page 55).

1 In the **APPLICATIONS** menu, highlight **Flickr** and press **OK** to open the browser.

2 Upload your photos according to the instruction of the browser.

Using the Media Player

This TV allows you to enjoy movie, music and photo files stored on a USB device connected to the USB port.
Moreover, you can also play photos, movies or music files from your PC by connecting the TV to your home network.

Terminology:

DMP: DLNA CERTIFIED™ Player

DMS: DLNA CERTIFIED™ Server

DMR: DLNA CERTIFIED™ Renderer

DMC: DLNA CERTIFIED™ Controller

- DMP: The TV can control and play content from a DMS.
  - A DMS is a device that can function as a server for DMP or DMR.
- DMR: The TV can play content from a DMS. Playback is controlled by a DMC.
  - A DMC is a device that can instruct the TV to display content.

NOTE:
- Do not insert/remove USB device while in use.
- MENU is not available during playback.
- When you want to use your TV as a DMR, set Media Renderer to On (see "Media Renderer" on page 37).

Media Player Specifications

Device

USB device

Interface version: USB2.0 HS

USB Mass Storage Class devices (MSC)

NOTE:
- Connectivity is not guaranteed for all devices.
- Incorrect behavior may occur with a USB hub connection.

File system: FAT12, FAT16 and FAT32

Maximum memory size: Unlimited

DLNA CERTIFIED™ Server: Your PC (for example)

You must obtain any required permission from copyright owners to download or use copyrighted content. TOSHIBA cannot and does not grant such permission.

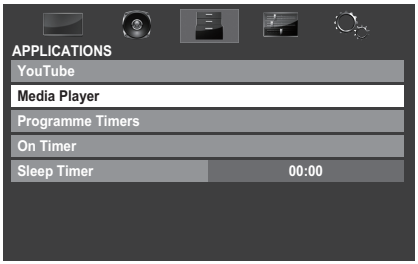
Basic operation

Using Media Player with USB

When Auto Start is enabled, you will be asked if you want to start the Media Player whenever a USB device is inserted. If Auto Start is disabled (or if you want to connect to a DMS on the network), you must manually start the Media Player from the menu.

To change the Auto Start setting:

1. Press **MENU** and ◀ or ▶ to select the **APPLICATIONS** menu.
2. Press ▼ to select **Media Player**, and press **OK**.



3. Press ▲ or ▼ to select **SETUP**, and press **OK**.
4. Press ▲ or ▼ to select **USB Auto Start**, and then press ◀ or ▶ to select **On** or **Off**.

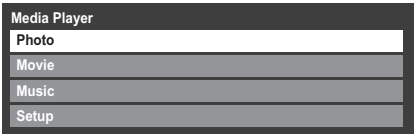
Auto Start:

1. Insert USB device into the USB socket on the left side of the TV. A prompt will appear.
2. Press ◀ or ▶ to select **Yes**, and then press **OK**.
3. Press ▲ or ▼ to select **Photo**, **Movie**, or **Music** and press **OK**.

NOTE: If **Auto Start** is set to **Off**, you can start the Media Player manually.

Manual Start:

1. Insert USB device into the USB socket on the left side of the TV.
2. In the **APPLICATIONS** menu, select **Media Player**, and press **OK**.
3. Press ▲ or ▼ to select **Photo**, **Movie** or **Music** and press **OK**. The thumbnail will appear.



To select a file in the list of contents:

1. Press ▲▼ (◀▶) to select a file or folder.
2. Press **OK** to move to the next layer, or press **RETURN** to return to the previous layer.

To close the Media Player:

1. Press **EXIT**.

Using the Media Player with a DLNA CERTIFIED™ Server

You need to configure a home network before using this feature (*see page 11*).

1. In the **APPLICATIONS** menu, highlight **Media Player**, and then press **OK**.
2. Press ▲ or ▼ to select **Photo**, **Movie**, or **Music** and press **OK**. The thumbnail (for Photo) or list of files (for Movie and Music) will appear.

   NOTE: If there is more than one media server on the network, a list of all media servers will be displayed. Highlight the server you want to use, and press **OK**.
3. Press ▲ or ▼ to select a DMS if the selection window is displayed.

To select a file in the list of contents:

1. Press ▲ or ▼ to select a file or folder.
2. Press **OK** to move to the next layer, or press **RETURN** to return to the previous layer.

To close the Media Player:

1. Press **EXIT**.

To display the device information

1. Press **QUICK** to open the **Quick Menu** in list mode or Multi View mode.
2. Press ▲ or ▼ to select **Device Information**.

Setting DLNA CERTIFIED™ Server waking up:

You only need to complete the Media Server Setup if you wish to use the "Wake-on-LAN" feature.

1. In the **APPLICATIONS** menu, highlight **Media Player**, and then press **OK**.
2. Press ▲ or ▼ to highlight **Setup**, and press **OK**.
3. Press ▲ or ▼ to highlight **Media Server Setup**, and press **OK**. A list of currently available DMSs will appear.
4. Press ▲ or ▼ to select the desired device, and press **OK**. A check will appear in the box. To remove the check, press **OK** again.
5. Press ▶ to highlight **Done**, and then press **OK** to save.

NOTE:

- Up to 8 DMSes can be selected.
- Even if the device checked is powered off, it will be displayed but grayed out in the **Select Device** window. When **OK** is pressed on a highlighted grayed out item, a confirmation of Wake-on-LAN is displayed. The TV tries to wake up the DMS if **Yes** is pressed. The Server will start if it supports Wake-on-LAN feature.
- When some DMSs are connected, it may take time until the list is displayed. The list may be refreshed by the following operation.
  - The device selection window is closed once and it is displayed again.
  - The **RED** button is pressed.

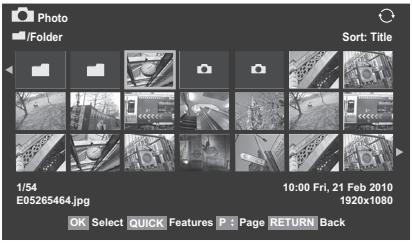
Viewing photo files (on a DLNA CERTIFIED™ Server or USB device)

There are three types of viewing modes.

Multi View

This view allows you to search for photos in a grid format. The pictures are displayed using thumbnail data in each image file.

Photo list example



The initial highlighted position will be on the top left thumbnail in the Multi View.

1. Press ▲▼◀▶ to move the highlight in one window. If all of the photos will not fit in one screen, when pressing ◀ at the top left thumbnail, the screen will move to the previous page. Conversely, when pressing ▶ at the bottom right thumbnail, the screen will move to the next page.

   P∧ P∨ buttons can be used to page up/down the photo list when there are more photos than will fit onto one screen. When the **P∧ P∨** buttons are pressed, the highlight shall be on the photo at the top left of Previous/Next list.
2. When you select a folder, press **OK** to move to the next layer. Press **RETURN** to move back to the previous layer.
3. Press **OK** to view the selected photo in Single View mode.

NOTE: When the TV is used as a DMR, this feature is not available.

Single View

In this mode, only files located in the selected directory will be displayed. This view allows you to change the photo content manually. When moving from Multi View to Single View, the currently selected photo will be displayed.

1. Press ▶ to view the next photo. Press ◀ to view the previous photo.

2 Press ▲ to rotate the image 90° clockwise. Press ▼ to rotate the image 90° counterclockwise.

3 Press (i+) to display file status information (file number, photo title, date and time taken, resolution etc.).

NOTE: The information may not be correctly displayed depending on the content, DMC or DMS.

Slide Show

This view allows you to watch a slide show of your photos. In this mode, only files located in the selected directory will be played.

1 To start slideshow, press **OK** in the Single View mode.

2 Press ◀ or ▶ to view the previous/next photo.

3 Press ▲ or ▼ to rotate the photo.

4 Press (i+) to display file status information.

To set Interval Time and Repeat settings:

1 Press **QUICK** to open the **Quick Menu** while in the Single View mode or Slide Show mode.

2 Press ▲ or ▼ to select either **Interval Time** or **Repeat**.

3 Press ◀ or ▶ to adjust the setting and press **OK**.

To set Background Music

1 Press **QUICK** to open the **Quick Menu** while in the Slide Show mode.

2 Press ▲ or ▼ to select **Background Music** and press **OK**.

3 Press ▲ or ▼ to select **Background Music** and press ◀ or ▶ to select **On**.

4 Press ▼ to select **Select Music** and press **OK**.

5 Select a music.

NOTE:
- The music must be selected from the same media (USB) device or DMS from which the picture files will be played.
- This feature is not available when there is no music that can be selected.

To sort the folders and files

1 Press **QUICK** to open the **Quick Menu** from Multi View mode.

2 Press ▲ or ▼ to select **Sort**.

3 Press ◀ or ▶ to select **Title/File Name**, **New** or **Old** to set the sorting rule.

Item	Description
Title (DMS)	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), capital alphabet (A, B, ..., Z), small alphabet (a, b, ..., z) 3. Increasing order
File Name (USB)	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), capital alphabet (A, B, ..., Z), small alphabet (a, b, ..., z) 3. Increasing order
New	From new to old according to the date and time when the picture was taken.
Old	From old to new according to the date and time when the picture was taken.

NOTE: Sorting may not be supported by some DMSs.

To display the device information

1 Press **QUICK** to open the **Quick Menu** from Multi View mode.

2 Press ▲ or ▼ to select **Device Information**.

NOTE: When the photos on the USB device are used, or the TV is used as a DMR, this feature is not available.

To close the Photo Viewer

1 Press **EXIT**. The television will return to the last viewed channel or external input.

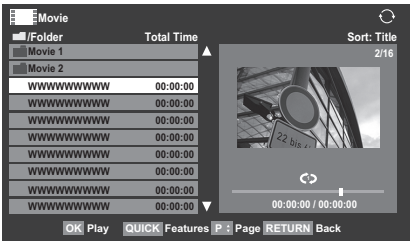
File Compatibility

See page 75.

Viewing movie files (on a DLNA CERTIFIED™ Server or USB device)

You can select movies from a list of available files.

Movie list example



1 Press ▲ ▼ to select a file or folder. P^ Pv buttons can be used to page up/down the movie list when there are more files than will fit onto one screen.

2 When you select a folder, press **OK** to move to the next layer. Press **RETURN** to move back to the previous layer.

3 With the desired file selected, press **OK** or PLAY (▶) to start playback.

NOTE:
- On preview screen, if you highlight the file without pressing **OK**, the content is played on a preview screen. When **OK** is pressed, it is played in full screen mode.
- Depending on the file size, it may take some time to start playback.

4 Press ■ to stop playback.

NOTE:
- If playback finishes before ■ is pressed, the screen will return to the list of available file.
- Depending on the file size, it may take some time for playback to begin.
- If you change the structure or modify any of the folder or file names under the "PRIVATE" folder, the list display as well as movie playback may not function correctly.

During playback:

- Press ❚❚/▶ to pause.
  You can move to the desired replay position by pressing ◀ or ▶ during PAUSE (DMS only).
  PAUSE or operations during PAUSE may not be available depending on the contents, DMC or DMS.
- To resume normal playback, press PLAY(▶).
- To play in fast reverse or fast forward directions, press ◀◀ or ▶▶ during playback. Each time you press the ◀◀ or ▶▶, the playback speed will change.
- To locate a specific file, press ⏮ or ⏭ repeatedly.
- Press (i+) to display the file status information (content number, movie title, progress time etc.).

NOTE:
- The information may not be correctly displayed depending on the contents, DMC or DMS.
- During playback, you can adjust the PICTURE, Picture Size and SOUND menu functions from the **Quick Menu**.

To select subtitle and audio languages

- Press **SUBTITLE** repeatedly to select your preferred subtitle language.
- Press ◯◯Ⅰ/Ⅱ repeatedly to select your preferred audio language.

To set the repeat mode

1 Press **QUICK** to open the **Quick Menu.**

2 Press ◀ or ▶ to select **Off**, **All** or **1**.

Mode	Description
Off	The file is played back only once.
All	Files in the same folder are repeatedly played back.
1	The same file is repeatedly played back.

3 Press **RETURN**.

NOTE: When the TV is used as a DMR, this feature is not available.

To sort the folders and files

1. Press **QUICK** to open the **Quick Menu** in list mode.
2. Press ▲ or ▼ to select **Sort**.
3. Press ◀ or ▶ to select **Title/File Name**, **New** or **Old** to set the sorting rule.

Item	Description
Title (DMS)	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), capital alphabet (A, B, ...,Z), small alphabet (a, b, ..., z) 3. Increasing order
File Name (USB)	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), alphabet (A, B, ...,Z) 3. Increasing order
New	From new to old according to the date and time when the contents were updated.
Old	From old to new according to the date and time when the contents were updated.

NOTE: Sorting may not be supported by some DMSs.

To display the device information

1. Press **QUICK** to open the **Quick Menu** in list mode.
2. Press ▲ or ▼ to select **Device Information**.

NOTE: When the movies on the USB device are used, or the TV is used as a DMR, this feature is not available.

To close the Movie Viewer

1. Press **EXIT**.

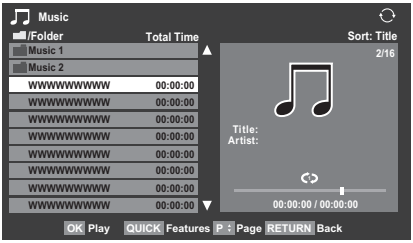
File Compatibility

See page 75.

Playing music files (on a DLNA CERTIFIED™ Server or USB device)

You can listen to music from a list of available files.

Music list example



1. Press ▲ ▼ to select a file or folder. **P^ P˅** buttons can be used to page up/down the music list when there are more files than will fit onto one screen.
2. When you select a folder, press **OK** to move to the next layer. Press **RETURN** to move back to the previous layer.
3. With the desired file selected, press **OK** or PLAY (▶) to start playback.

   NOTE: If you highlight the file without pressing **OK**, the content is played on a music list. When **OK** is pressed, it is played in full screen mode.
4. Press ■ to stop playback.

NOTE:
- Depending on the file size, it may take some time for playback to begin.
- During playback, you can adjust the **SOUND** menu functions from the **QUICK Menu**.

During playback:

- Press ❚❚/▮▶ to pause.
- To resume normal playback, press PLAY(▶).
- You can move to the desired replay position by pressing ◀ or ▶ during PAUSE.
- PAUSE or operations during PAUSE may not be available depending on the content, DMC or DMS.
- To play in fast reverse or fast forward directions, press ◀◀ or ▶▶. Each time you press ◀◀ or ▶▶, the playback speed will change.

To set the repeat mode:

1. Press **QUICK** to open the **Quick Menu**.
2. Press ◀ or ▶ to select **Off**, **All** or **1**.

Mode	Description
Off	Files in the same folder are played back once.
All	Files in the same folder are repeatedly played back.
1	The same file is repeatedly played back.

3. Press **RETURN**.

NOTE: When the TV is used as a DMR, this feature is not available.

To sort the folders and files

1. Press **QUICK** to open the **Quick Menu** in list mode.
2. Press ▲ or ▼ to select **Sort**.
3. Press ◀ or ▶ to select **Title/File Name**, **New** or **Old** to set the sorting rule.

Item	Description
Title (DMS)	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), alphabet (A, B, ...,Z) 3. Increasing order
File Name (USB)	File sorting rules: 1. Unicode priority 2. (0, 1, ..., 9), alphabet (A, B, ...,Z) 3. Increasing order
New	From new to old according to the date and time when the contents were updated.
Old	From old to new according to the date and time when the contents were updated.

NOTE: Sorting may not be supported by some DMSs.

To display the device information

1. Press **QUICK** to open the **Quick Menu** in list mode.
2. Press ▲ or ▼ to select **Device Information**.

NOTE: When the music files on the USB device are used, or the TV is used as a DMR, this feature is not available.

To display the file status information

1. Press i+ during playback. The information will be displayed on the bottom of the screen.
2. Press i+ again to remove the information.

NOTE: The information may not be correctly displayed depending on the content, DMC or DMS.

To close the Music Player:

1. Press **EXIT**.

File Compatibility

See page 75.

Using the Photo Frame feature

You can use the TV screen as a digital photo frame. One image (pre-installed or user-installed) can be displayed. Date info can also be superimposed, if desired.

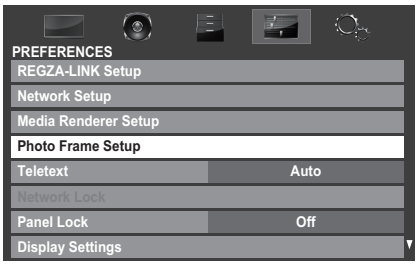
You can overwrite the photo file with a file from a USB storage device or DLNA CERTIFIED™ Server.

To open Photo Frame

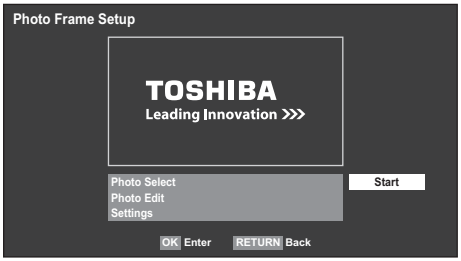
Open from Menu

1. Press **MENU** and ◀ or ▶ to select the **PREFERENCES** menu.

2. Press ▼ to select **Photo Frame Setup**, and then press **OK**.



The preview screen will appear.



3. Press ▶ to select **Start**, and then press **OK** to open **Photo Frame**.

To open from the Quick Menu

1. Press **QUICK** to open the **Quick Menu**.

2. Press ▲ or ▼ to select **Photo Frame**, and then press **OK** to open **Photo Frame**.

To close Photo Frame:

1. Press **EXIT**.

Setting the features

In the preview screen, you can set various settings for Photo Frame.

Photo Select

1. In the **Photo Frame Setup** menu, press ▲ or ▼ to select **Photo Select**, and then press **OK**.

2. If the device selection screen appears, press ▲ or ▼ to select the appropriate device, and then press **OK**.

3 Press ▲ ▼ ◀ ▶ to select the photo you want to copy from the USB storage device or DLNA CERTIFIED™ server to the TV's flash memory, and then press **OK**.

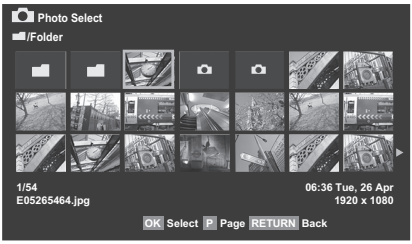


Photo Edit

1 Press ▲ or ▼ to select **Photo Edit**, and then press **OK**.

2 Press ▲ or ▼ to select **Rotate** or **Delete**.

3 Set the following items as required.

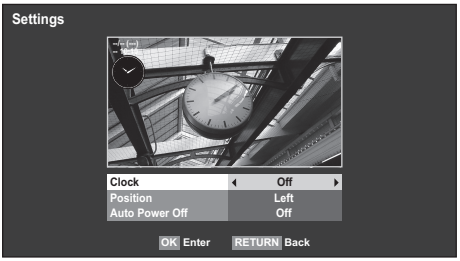
- **Rotate** — Press **OK** to rotate the image 90°clockwise.
- **Delete** — Press **OK**. A confirmation window will appear. Press ◀ or ▶ to select **YES**, and then press **OK**.

4 Press **RETURN**.

Settings

1 Press ▲ or ▼ to select **Settings**, and then press **OK**.

2 Press ▲ or ▼ to select **Clock**, **Position** or **Auto Power Off**.



3 Set the following items as required.

- **Clock** — Press ◀ or ▶ to select **Off**, **Digital Clock**, **Analogue Clock** or **Analogue + Digital**.
- **Position** — Press ◀ or ▶ to select **Left** or **Right**.
- **Auto Power Off** — Press ◀ or ▶ to select **Off**, **00:30**, **01:00**, **02:00**, **04:00**, **06:00** or **12:00**.

  If the Photo Frame window is left open, the TV will automatically turn off after the set length of time (maximum 12 hours).

4 Press **RETURN**.

5 Select **Start**, and then press **OK**.

NOTE:

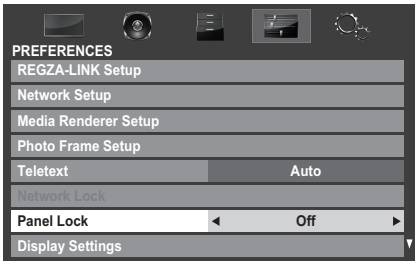
- The clock display will only appear when time from a digital broadcast is available.
- The photo and clock displays are moved by 4 dots every 5 minutes to minimize the risk of screen burn-in.
- The pre-installed photo file is stored in the TV's flash memory before shipment.
- Picture Size selection (Normal/ Dot by Dot) is available by pressing the QUICK button. However when the resolution is 1920 x 1080 or above, the Picture Size selection menu will be grayed out.

Other features

Panel Lock

Panel Lock *disables the buttons on the television. All buttons on the remote control can still be used.*

1 In the **PREFERENCES** menu, select **Panel Lock** and choose **On** or **Off** using ◀ or ▶.



When **Panel Lock** is **On**, a reminder will appear when the buttons on the television are pressed. **If the standby button is pressed, the television will switch off and can only be brought out of standby by using the remote control.**

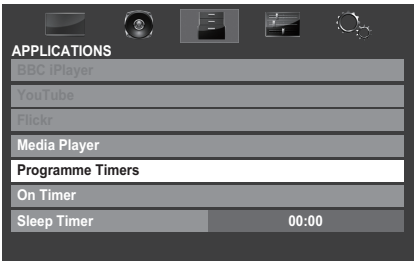
The timers

Programme Timers – **digital** only

This feature will set the television to go to a specific channel at a certain time. It can be used to view a particular programme, or by setting the mode to daily or weekly, can be used to view a series of programmes.

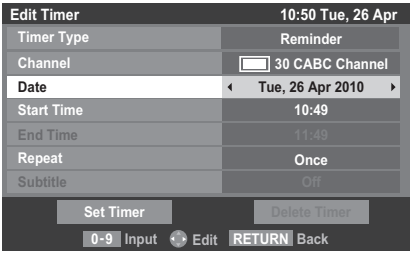
1 Press **MENU** and ◀ or ▶ to select the **APPLICATIONS** menu.

2 Press ▼ to select **Programme Timers**, and then press **OK**.



3 Press ▼ if necessary to select an open timer position, then press **OK**. The **Edit Timer** menu will now appear on screen.

4 Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.



5 When all of the details have been entered, highlight **Set Timer** and press **OK** to save the timer.

The ORANGE/RED programme timer indicator on the front of the television will be lit (see page 70 for details).

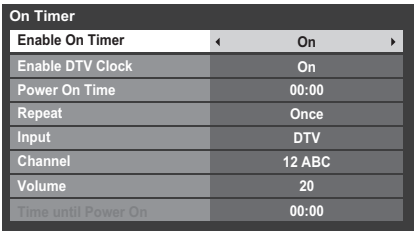
PLEASE NOTE: When a timed programme is about to start, an information screen will appear offering the option of watching or cancelling the programme. The menus and other channels will not be available during the timed programme unless the programme timer is cancelled. The programme timer you set is not performed when the TV is turned off with the ⏻/I POWER switch.
It will only be possible to create or edit programme timers for the currently tuned DTV input.

On Timer

The feature allows you to set the television to turn on automatically to a preset channel at a certain time of day or after a certain length of time.

1. In the **APPLICATIONS** menu, press ▼ to select **On Timer** and press **OK**.

2. Press ▲ or ▼ to select **Enable On Timer**, and then press ◀ or ▶ to select **On**.



3. Press ▼ to select **Enable DTV Clock**, and then press ◀ or ▶ to select **On** or **Off**.

4. Press ▲ or ▼ to go through the list adding the details of the On Timer by using the number buttons and ◀ and ▶ to make selections.

Power On Time (only for DTV Clock On mode)**:** Set the time you prefer with the number buttons.
Repeat (only for DTV Clock On mode)**:** Select the desired On Timer operation (**Once**, **Every Day**, **Mon-Fri**, **Mon-Sat**, **Sat-Sun**).
Input: Select a video input source (ATV, DTV, EXT 1, EXT 2, EXT 3, HDMI 1, HDMI 2, HDMI 3, HDMI 4 or PC).
Channel: Set the channel that will be tuned when the television turns on.

NOTE: When an external input is selected in the **Input** field, a channel cannot be selected.

Volume: Set the volume that will be applied when the television turns on.
Time until Power On (only for DTV Clock Off mode): Set the amount of time from now until the TV turns on using the number buttons (maximum of 12 hours).

To cancel the On Timer

1. In the **On Timer** menu, select **Enable On Timer**

2. Press ◀ or ▶ to select **Off**.

Sleep Timer

The television can be set to turn itself **Off** *after a certain length of time.*

1. In the **APPLICATIONS** menu, press ▼ to select **Sleep Timer**. Use the number buttons to set the desired time. For example, to switch the television off in one and a half hours enter 01:30, or press ▶/◀ to increase/decrease in steps of 10 minutes. (Maximum time setting is 12 hours)

2. Press **EXIT** to finish.

3. To cancel the **Sleep Timer**, enter all zeros for the above setting.

Energy Saving Settings

Automatic Power Down

The TV will automatically turn itself off (standby) after 4 hours, if you do not operate the TV either from the remote control or the TV control panel.

1. In the **PREFERENCES** menu, highlight **Energy Saving Settings** and press **OK**.
2. Press ▲ or ▼ to select **Automatic Power Down**.
3. Press ◀ or ▶ to select **On** or **Off**, and press **OK**.

NOTE:
- This feature is set to **On** when **Location** is set to **Home**.
- 1 minute before switching to standby, a Warning message will appear.
- When the following features are set, the feature that is set for the nearest time will function.
  - Automatic Power Down
  - Sleep Timer
  - Photo Frame/Auto Power Off
  - Auto shutdown after 1 hour of inactivity (after power on by On Timer)
  - No signal auto power off (after 15 minute of no signal)

No Signal Power Down

The TV will automatically turn itself off after 15 minutes when no signal is detected. You can change the setting to Off for the following purposes:

- Low signal strength of analog channel (no signal detection)
- Only Audio L/R is connected to external input to listen to music through the TV speakers.

1. In the **Energy Saving Settings** menu, highlight **No Signal Power Down**, and press **OK**.
2. Press ▲ or ▼ to highlight the item you want to change, and press ◀ or ▶ to select **On** or **Off**.

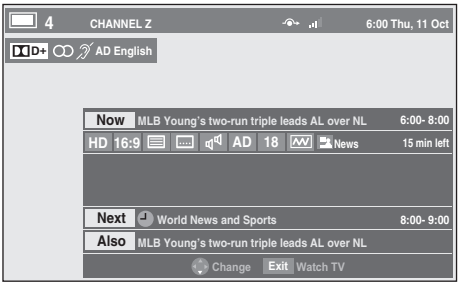
NOTE:
- Default setting is all On.
- A warning message will appear 1 minute before turning off.

Digital on-screen information and Programme Guide

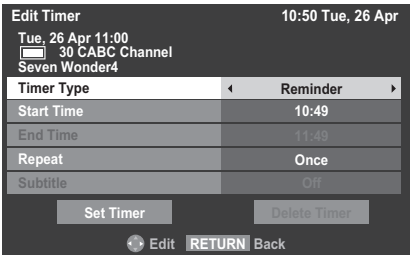
When viewing in **digital** mode, the on-screen information and programme guide provide access to programme details for all available channels.

Information

1. Press (i+), the information screen will appear giving details of the channel and programme currently being viewed.



2. Press ▲ or ▼ to select the "**Now**", "**Next**" or "**Also**" information guide.
3. To record the next scheduled programme, select "**Next**" and press **OK**. The **Edit Timer** screen will appear.



4. The details of the programme will already have been added to the timer. Highlight **Set Timer** and press **OK** to save.

   To indicate that a Recording Timer has been set, a clock icon will be displayed in the **Next** and **Also** fields of the information screen. A check mark will appear if the timer is a Reminder Timer.
5. Press ▼ to select **Also**. Details of programmes that have started on other channels will be provided. Use ◀ or ▶ to change the display contents.

To display More Information

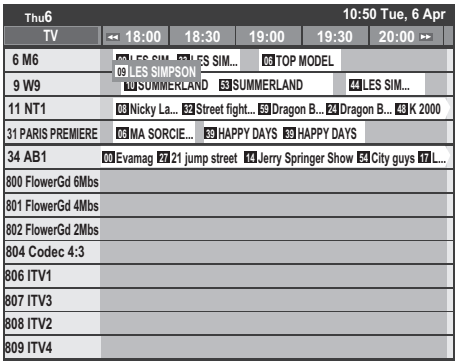
1. Press **QUICK** to open the **Quick Menu**.
2. Press ▼ to highlight **More Information** and press **OK**.

On-screen Information icons

	Icon	Description
Service info		Service type (TV, Radio, Text)
		Skip
Audio info		Mono
		Stereo
		Dual mono
		Multichannel
	D	Dolby Digital
	D+	Dolby Digital+
	HE-AAC	Audio Coding
	AD	Audio Description
Audio/Subtitle info		For Hard of Hearing
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
		Teletext
		Subtitle (Single, Multi)
		Multi-audio track
	0, 4 – 18	Parental rating
		Encrypted
Timer info		Recording
	✓	Reminder

Guide

1. Select the on-screen guide by pressing **GUIDE**, and the guide screen will appear highlighting details of the channel and programme currently being viewed. This may take a few moments to appear.



You can switch the time scale to 1.25 or 2.5 hours by pressing the **GREEN** button.

NOTE: Channels are displayed in groups by service type (TV, Radio, Text. Pressing the **TV** button will switch the service type.

2. Press ◀ or ▶ for information on other programmes scheduled for the channel selected. To highlight the first programme in the genre grid, press the **RED** button.
3. For details of other programmes currently available, press ▲ and ▼ to scroll up and down the channel list. As channels are selected, details of the programme currently being broadcast will appear. Press ◀ or ▶ to view information for future programmes.
4. For information on a highlighted programme, press i+.
5. To set the timer for that programme, press the **BLUE** button to bring up the **Programme Timers** menu.

NOTE: In order for the recording operation to work properly, the media recorder must be set to the same time as the TV. Regarding the process for recording, please refer to the owner's manual of the recording equipment.

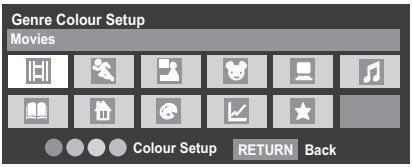
6. Press P∨ to advance to the next page, or press P∧ to go back to the previous page.

Genre selection/searching

From the guide screen, you can use the genre selection and search features.

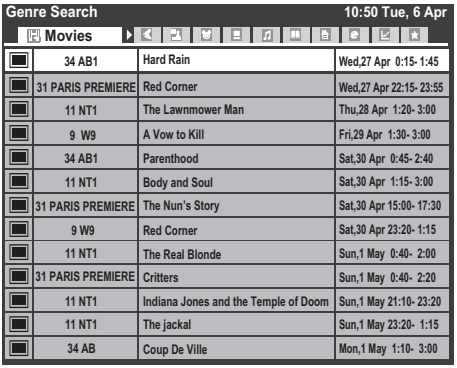
1. Press the **QUICK** button from the guide screen.

2. Press ▲ or ▼ to highlight **Genre Colour** in the **Quick Menu**, and then press **OK**.



3. With the focus on a particular genre, press the desired colour key to assign. Four colours will be available to set. Press **RETURN** to go back to the guide screen.

4. Press the **YELLOW** button to access the **Genre Search** screen.



	34 AB1	Hard Rain	Wed,27 Apr 0:15- 1:45
	31 PARIS PREMIERE	Red Corner	Wed,27 Apr 22:15- 23:55
	11 NT1	The Lawnmower Man	Thu,28 Apr 1:20- 3:00
	9 W9	A Vow to Kill	Fri,29 Apr 1:30- 3:00
	34 AB1	Parenthood	Sat,30 Apr 0:45- 2:40
	11 NT1	Body and Soul	Sat,30 Apr 1:15- 3:00
	31 PARIS PREMIERE	The Nun's Story	Sat,30 Apr 15:00- 17:30
	9 W9	Red Corner	Sat,30 Apr 23:20- 1:15
	11 NT1	The Real Blonde	Sun,1 May 0:40- 2:00
	31 PARIS PREMIERE	Critters	Sun,1 May 0:40- 2:20
	11 NT1	Indiana Jones and the Temple of Doom	Sun,1 May 21:10- 23:20
	11 NT1	The jackal	Sun,1 May 23:20- 1:15
	34 AB	Coup De Ville	Mon,1 May 1:10- 3:00

5. Press ◀ or ▶ to select the genre. Programmes listed will change for the new genre. Press ▲ or ▼ to highlight a particular programme.

6. When a current programme is selected, pressing **OK** will tune to that programme. When a future programme is selected, pressing **OK** will open the **Edit Timer** menu.

7. For information on a highlighted programme, press i+.

8. To exit the **Genre Search** and go back to the guide screen, press the **YELLOW** button.

Digital settings – parental control

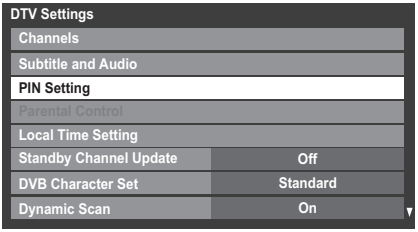
In order to prevent viewing of unsuitable films and programmes, channels and menus can be locked in digital mode. These can then only be accessed with a security code PIN.

Setting the PIN

1. Press **MENU** and ▶ to select the **SETUP** menu.

2. Use ▼ to select **DTV Settings**, and then press **OK**.

3. Press ▼ to highlight **PIN Setting**, and then press **OK**.



4. Using the number buttons enter a four digit number. Once entered you will be prompted to confirm by entering again.

The PIN number is now set.

If the PIN code has been set, when **Auto Tuning** and **Reset TV** are executed, entering the PIN will be necessary.

Parental Setup

The Parental Control feature allows you to block programmes according to their rating levels. If a PIN has been set, you will need to enter it before adjusting the level.

1. In the **DTV Settings** menu, press ▼ to select **Parental Control**, and then press **OK**.

2. Use ◀ or ▶ to choose an option (**None** or an age setting (4-17 or 4-18 depending on the **Country** setting)).

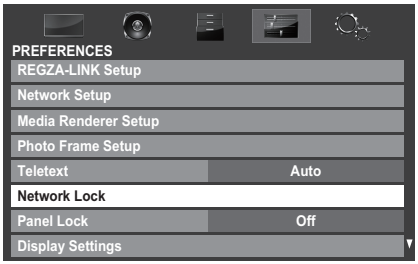
To view blocked programmes, enter the PIN. To reactivate the Parental Control, turn the TV off and then on again.

Network Lock

*You can **use** the Network Lock feature to prevent the Web browser from launching. When this feature is set to **On**, PIN input will be necessary to use YouTube.*

This feature will be grayed out until a PIN is set.

1. In the **PREFERENCES** menu, highlight **Network Lock** and press **OK**.



2. Enter your four-digit PIN code.

3. Press ◀ or ▶ to select **On**, and then press **OK**.

To unlock the Network:

1. Select **Off** in step 3 above.

Digital settings – Channel Options

Selecting favorite channels

Favorite Channels *creates a list of the* **digital** *channels that are watched most. Four lists can be created, they can be a mixture of television, radio and text channels.*

1. Select a channel you want to add to your favorite list.

2. Press **QUICK** to open the **Quick Menu**.

3. Press ▼ to select **Channel Options** and press **OK**.

4. Press ▶ repeatedly to select the favorite list (Fav.1-4)

5. Press **OK** to select the ones required. A tick will appear in the box as they are selected.

6. Repeat steps 1 through 5 for other channels.

7. When all favorites have been selected, press **EXIT**.

Favorite Channel Lists

1. Press **LIST** to display **Channel List**.

2. Press ◀ or ▶ to select Favorites 1-4. The number of favorites available depends on how many lists have been created.

3. Press ▲ or ▼ to highlight a channel and press **OK** to watch.

Skip channels

This feature allows you to set channels that will be skipped when **P∨** *or* **P∧** *are used to tune.*

1. Select the channel you want to skip in your channel list.
2. From the **Quick Menu**, press ▼ to select **Channel Options** and press **OK**.
3. Press ▶ repeatedly to highlight the skip (↷) box.
4. Press **OK** to select. A tick will appear in the box.
5. Repeat steps 1 through 4 for other channels.
6. Press **EXIT**.

NOTE: Skipped channels cannot be selected by **P∨** or **P∧** but still be accessed by direct number entry (when tuned a ↷ icon will be displayed in the banner to indicate as a skipped channel).

Locking channels

Locking Channels *stops the viewing of* **digital** *channels, and they can only be accessed by entering the PIN.*

1. Select the channel you want to lock in your channel list.
2. From the **Quick Menu**, press ▼ to select **Channel Options** and press **OK**.
3. Press ▶ repeatedly to highlight the lock (🔒) box.
4. Press **OK** to select. A tick will appear in the box.

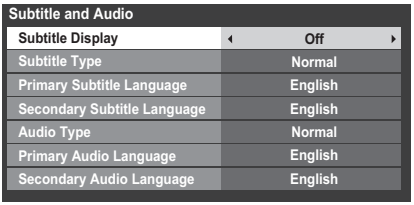
   If a PIN has already been set, PIN entry will be required to set the locked channels.
5. Repeat steps 1 through 4 for other channels.
6. Press **EXIT**.
7. From this point on, when any of the channels in the **Locked Channel** list are selected, the PIN must be entered before they can be accessed.

Digital settings – other settings

Subtitles

In digital mode, this feature will show subtitles on the screen in the selected language provided they are being broadcast.

1. In the **DTV Settings** menu, press ▼ to select **Subtitle and Audio** and press **OK**.
2. Press ▼ to select **Subtitle Display** and use ◀ or ▶ to select **On** or **Off**.



3. Press ▼ to select **Primary Subtitle Language** or **Secondary Subtitle Language** and use ◀ or ▶ to select an option.

The **SUBTITLE** button can be used to select subtitle on or off for the current channel only and to select the subtitle language if more than one subtitle is available.

Audio languages

This feature allows a programme or film to be viewed with a choice of soundtrack language, provided multiple language tracks are being broadcast.

1. In the **Subtitle and Audio** menu, press ▼ to select **Audio Type** and use ◀ or ▶ to select **Normal** or **For Hard of Hearing**.
2. Press ▼ to select **Primary Audio Language** or **Secondary Audio Language** and use ◀ or ▶ to select an option.

   If more than one soundtrack is available, use the ◯I/II button to select between them.

Common Interface

The Common Interface Slot, situated on the side of the television, enables the insertion of a CAM (Conditional Access Module) and card. These are purchased from a service provider and allow additional subscription broadcasts to be viewed. For information, see a service provider.

1. Insert the CAM and card into the Common Interface Slot, following the instructions provided with the CAM. A box will appear on screen to confirm that the CAM has been inserted.
2. In the **DTV Settings** menu, press ▲ or ▼ to select **Common Interface** and press **OK**.
3. Details of the CAM should now be available.

NOTE:

- Software update of a CI Plus CAM may occur automatically if instigated by the broadcaster. This could cause the cancellation of any Reminders/Recordings during this process.
- Some CI or CI+ CAM may not be supported.
- CI+ operation is not guaranteed except for Canal Ready DTT services on suffix FC models.

Software Upgrade and Licences

Auto Upgrade

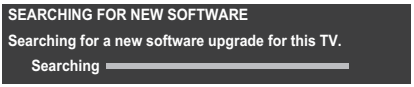
When **Auto Upgrade** *is set to* **On***, the television will automatically upgrade while in standby if new software is available.*

1. From the **SETUP** menu, press ▲ or ▼ to select **Software Upgrade** and press **OK**.
2. Press ▲ or ▼ to select **Over-the-air Upgrade** and press **OK**.
3. Press ▲ or ▼ to select **Auto Upgrade**.
4. Use ◀ or ▶ to select **On** or **Off**.

Searching for New Software

If preferred, software upgrades can be searched for manually using **Search for New Software**.

1. In the **Software Upgrade** menu, select **Over-the-air Upgrade**, and then press ▲ or ▼ to select **Search for New Software**.
2. Press **OK**. The television will automatically start searching for a software upgrade, the progress bar will move along the line.



If an upgrade is found, the television will automatically start downloading. If not, a screen will appear stating that an upgrade is unavailable.

Network Upgrade

TOSHIBA may offer upgrades for the TV's software in the future. The TV's software is upgraded via the Network.

Before downloading software;

Configure your TV to connect to the Internet.

NOTE: While the upgrade is being performed, you will not be able to watch the TV.

1. In the **Software Upgrade** menu, press ▲ or ▼ to select **Network Upgrade** and press **OK**.

   NOTE: If the network is not available, a warning message will appear.

2. The TV software upgrade will start when download succeeds.

Software Licences

The licences for the software used in this television are available for viewing.

1. In the **SETUP** menu, press ▲ or ▼ to select **Software Licences** and press **OK**.

   A screen will appear displaying all the licensing information required for the televisions software.

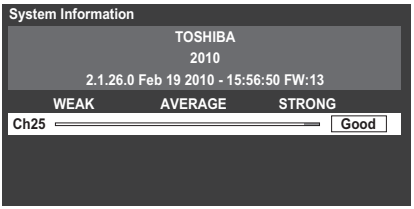
System Information and Reset TV

System Information

This feature can be used to check the version of software currently installed. When in DTV mode, it includes additional diagnostic information such as signal strength, signal quality, centre frequency, modulation, etc.

1. In the **SETUP** menu, press ▲ or ▼ until **System Information** is highlighted.

2. Press **OK** to display the **System Information**.



3. For information about the signal quality of a particular multiplex, press ▲ or ▼ to select that multiplex.

4. Press **OK** for a screen showing detailed technical information about the selected multiplex.

Reset TV

Selecting **Reset TV** *will reset all TV settings, including saved channels, to their original factory values.*

1. In the **SETUP** menu, press ▼ until **Reset TV** is highlighted.

2. Press **OK** to select. A screen will appear warning that all settings will be lost. Press **OK** to continue.

   When the set powers back on, the **Quick Setup** screen will appear. Press **OK** to advance the setup and perform an auto tune. (See "Quick Setup" section on page 13.)

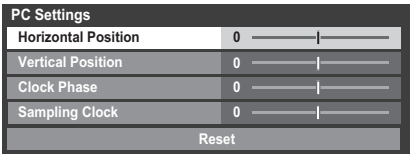
PC Settings

Horizontal and Vertical Position

Connect the PC (as shown in the 'Connecting a computer' section) and ensure that a picture is showing on the television screen. The picture position may now be adjusted to suit personal preference.

1. In the **PREFERENCES** menu, press ▲ or ▼ to highlight **Display Settings** and press **OK**.
2. In the **Display Settings** menu, press ▼ until **PC Settings** is highlighted.

3. Press **OK**. Press ▲ and ▼ to select an option, then ◀ or ▶ to adjust the settings.



Clock Phase

The **Clock Phase** *matches the PC signal with the LCD display. Adjusting this can clear horizontal stripes and picture blur.*

1. In the **Display Settings** menu, press ▼ until **PC Settings** is highlighted.
2. Press **OK** to select, and then ▼ to highlight **Clock Phase**.
3. Use ◀ or ▶ to adjust until the picture clears.

Sampling Clock

Adjusting the **Sampling Clock** *alters the number of pulses per scan, this will clear vertical lines on the screen.*

1. In the **Display Settings** menu, press ▼ until **PC Settings** is highlighted.
2. Press **OK** to select, and then ▼ to highlight **Sampling Clock**.
3. Use ◀ or ▶ to adjust until the picture clears.

Reset

Use Reset to return all items to the original factory settings.

1. In the **Display Settings** menu, press ▼ until **PC Settings** is highlighted.
2. Press **OK** to select, and then ▼ to highlight **Reset**.
3. Press **OK**.

NOTE: When a PC is connected using HDMI, none of these functions will be available.

The screen is disrupted momentarily when adjusting PC Settings. This is not a sign of malfunction.

The default settings and adjustment ranges may vary depending on the input signal format.

Input selection and AV connections

See page 7 for a detailed image showing recommended connections.

Most media recorders and decoders send a signal through the SCART lead to switch the television to the correct *Input* socket.

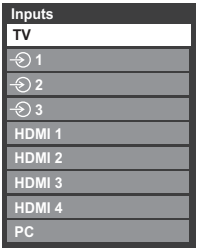
Alternatively, press the external source selection button ⊕ until the picture from connected equipment is shown.

Input selection

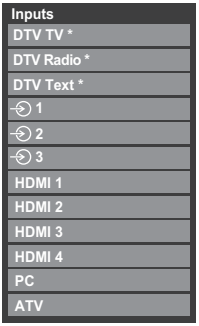
Use the Input Selection window if the television does not switch over automatically.

1 By pressing ⊕ on the remote control or TV, a list will appear on screen showing all inputs and external equipment.

Pressing ⊕ on the remote control



Pressing ⊕ on the TV right-side panel



* *If radio or text channels are currently available for DTV.*

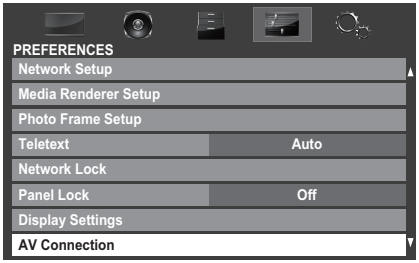
HDMI® displays equipment connected to *Input HDMI* on the back or side of the television.

PC displays a computer connected to *Input RGB/PC* on the back of the television.

External input skip

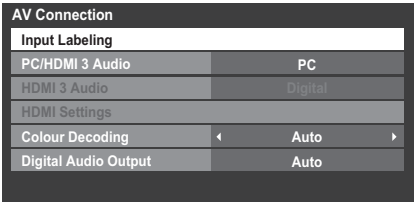
This feature is designed to make input selection more convenient by allowing you to skip unused inputs.

1 In the **PREFERENCES** menu, press ▼ to highlight **AV Connection**.

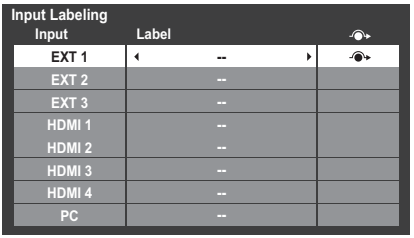


2 Press **OK** to display the **AV Connection** menu.

3 Press ▲ or ▼ to highlight **Input Labeling** and press **OK**.



4 Press ▲ or ▼ to select the input you want to skip, and then press the **RED** button to turn on the skip.



5 To turn off skip, press the **RED** button again.

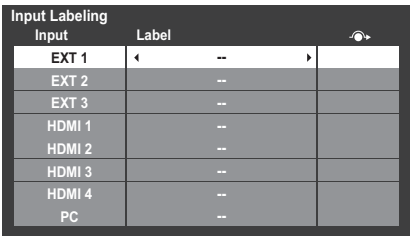
The input set to Skip is greyed out in the Input Selection window and is skipped over when you press ⊕ on the remote control.

Labeling video input sources

These input labels are shown in the input selector. You can label video inputs according to the devices you have connected to the TV.

1. In the **PREFERENCES** menu, press ▼ to highlight **AV Connection** and press **OK**.

2. Press ▲ or ▼ to highlight **Input Labeling** and press **OK**.



3. Press ▲ or ▼ to highlight the item you want to label, and then press ◀ or ▶ to select --, **Amplifier**, **Cable**, **DVD**, **Game**, **PC**, **Recorder**, **Satellite** or **VCR**, or press the **GREEN** button to select **User Input**.

   NOTE: When **User Input** is selected by pressing the **GREEN** button, the **Software Keyboard** window will appear. Input the desired characters (10 characters or less) by using the **Software Keyboard** (see page 36) or using the number buttons for a number input. To save your settings, press the **BLUE** button.

4. Repeat step 3 for other video inputs.

Colour Decoding

If you view DVDs with this TV, the Colour Decoding option may be set to ensure colourimetry reproduction.

NOTE: The modes excluding **Auto** (**BT.601** and **BT.709**) are to convert an irregular signal output from the DVD etc. with incorrect colour to the optimum state. If **BT.601** or **BT.709** is selected with a normal signal received, the colour may not be correctly displayed. This feature should normally be set to **Auto**.

1. In the **PREFERENCES** menu, press ▼ to highlight **AV Connection** and press **OK**.

2. Press ▲ or ▼ to highlight **Colour Decoding**, and then press ◀ or ▶ to select **Auto**, **BT.601** or **BT.709**.

PC Audio

In order to receive sound from a connected PC, plug the audio cable into the back of the television (as shown in the 'Connecting a computer' section), and then use the **PC/HDMI 3 Audio** *setting.*

1. In the **PREFERENCES** menu, press ▼ to highlight **AV Connection** and press **OK**.

2. Press ▲ or ▼ to highlight **PC/HDMI 3 Audio**, and then press ◀ or ▶ to select the **PC** option.

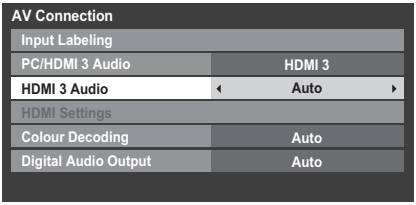
   NOTE: Selecting the **PC** option will force HDMI 3 Audio to Digital mode.

HDMI 3 Audio

If the connected HDMI source does not support digital audio, plug the audio cable into **PC/HDMI 3 (AUDIO)** *on the back of the television (as shown in the 'Connecting an HDMI® or DVI device to the HDMI input' section), then use the* **HDMI 3 Audio** *setting.*

1. In the **PREFERENCE** menu, press ▼ to highlight **AV Connection** and press **OK**.

2. Press ▲ or ▼ to highlight **HDMI 3 Audio**, and then press ◀ or ▶ to select **Auto** or **Analogue**.



If the sound is absent, try selecting a different setting.

NOTE: HDMI 3 supports digital and analogue sound, HDMI 1, HDMI 2 and HDMI 4 are digital sound only.

Certain DVD disk formats may not output from this TV (32/44.1/48kHz and 16/20/24 bits are acceptable).

HDMI Settings

*Some early HDMI equipment may not work properly with your HDMI TV. Please try setting the **Enable Content Type** and **INSTAPORT™** options to **Off**. Adjusting these settings should allow your early HDMI source to operate properly with your television.*

1. In the **PREFERENCES** menu, press ▼ to highlight **AV Connection** and press **OK**.
2. Press ▲ or ▼ to highlight **HDMI Settings** and press **OK**.

   NOTE: HDMI Settings is grayed out on non-HDMI inputs.
3. Press ▲ or ▼ to select an item, and then press ◀ or ▶ to select a setting.

- **Enable Content Type: On**

  This feature is part of the HDMI1.4 standard.

  When set to On, the TV will automatically adjust settings according to the content type data sent from the connected HDMI device.
- **INSTAPORT™: On**

  This feature reduces the lag time when switching HDMI sources.
- **RGB Range: Auto**

  This feature adjusts RGB full range signal automatically. When **Limited** is selected, RGB signal is output in the range from 16 to 235. When **Full** is selected, RGB signal is output in the range from 0 to 255.

NOTE:

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz or supports Deep Colour, you will need a Category 2 cable. Conventional HDMI/DVI cables may not work properly with this mode.
- All of the above HDMI settings need proper HDMI source devices.
  If the HDMI source products do not support these features, the television may not work properly by activating these features.

Digital Audio Output

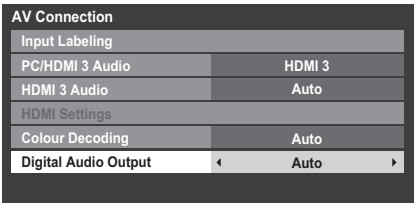
When connecting a surround sound amplifier to the digital audio output (Sony/Philips Digital Interface Format [S/PDIF]), the following options can be selected.

PCM: *This mode outputs PCM format to the digital audio output socket.*

Auto: *This mode outputs Dolby Digital (if available) or PCM to the digital audio output socket.*

Dolby Digital ⟶ Dolby Digital
Dolby Digital Plus ⟶ Dolby Digital
MPEG ⟶ PCM
HE-AAC ⟶ Dolby Digital

1. In the **PREFERENCES** menu, press ▼ to highlight **AV Connection** and press **OK**.
2. Press ▲ or ▼ to highlight **Digital Audio Output**.



3. Press ◀ or ▶ to select **PCM** or **Auto**.

Using REGZA-LINK

This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK compatible devices from the television remote control via HDMI connection (page 9).

When the **Enable REGZA-LINK** item in the **REGZA-LINK Setup** menu is set to **On**, individual functions also set to **On** will be activated.

Enable REGZA-LINK

1. Press **MENU** and ◀ or ▶ to select the **PREFERENCES** menu.
2. Press ▼ to select **REGZA-LINK Setup** and press **OK**.
3. Press ▼ to highlight **Enable REGZA-LINK**, and then press ◀ or ▶ to select **On**.

REGZA-LINK Setup	
Enable REGZA-LINK	On
TV Auto Power	On
Auto Standby	On
Amplifier Control	On
Speaker Preference	TV Speakers
Position Key Pass Through	On

NOTE: If you set **Enable REGZA-LINK** to **Off**, all other items will be grayed out.

TV Auto Power

The **TV Auto Power** *setting allows the television to be automatically switched on if a REGZA-LINK device is turned on.*

1. In the **REGZA-LINK Setup** menu, press ▼ to highlight **TV Auto Power**.
2. Press ◀ or ▶ to select **On** or **Off**.

Auto Standby

When **Auto Standby** *is enabled, the television, when switched off, will automatically switch off (standby mode) all connected REGZA-LINK equipment.*

1. In the **REGZA-LINK Setup** menu, press ▼ to highlight **Auto Standby**.
2. Press ◀ or ▶ to select **On** or **Off**.

Amplifier Control

When **Amplifier Control** *is set to* **On**, *it allows the "***Speaker Preference***" feature to become available.*

1. In the **REGZA-LINK Setup** menu, press ▼ to highlight **Amplifier Control**.
2. Press ◀ or ▶ to select **On** or **Off**.

Speaker Preference

This feature allows the audio output preference to be set to the TV speakers or AV amplifier speakers. The AV Amplifier option lets the television's remote control adjust or mute the volume of the audio.

1. In the **REGZA-LINK Setup** menu, press ▼ to highlight **Speaker Preference**.
2. Press ◀ or ▶ to select **TV Speakers** or **Amplifier**.

Position Key Pass Through

When **Position Key Pass Through** *for the selected HDMI input mode is set to* **On**, *the* **P∧ P∨** *and number (0-9) keys on the remote control will pass through. When* **Off**, *these keys operate as TV programme selection keys.*

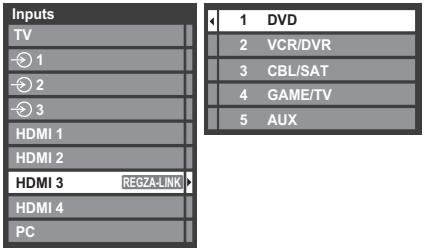
1. In the **REGZA-LINK Setup** menu, press ▼ to highlight **Position Key Pass Through** and press **OK**.
2. Press ▲ or ▼ to select the appropriate HDMI mode.
3. Press ◀ or ▶ to select **On**.

REGZA-LINK input source selection

If a REGZA-LINK device with HDMI switching capability (e.g. AV amplifier) is connected to the HDMI input, you can select another REGZA-LINK device that is connected to the master HDMI device on the input source list.

1. Press ⏎ and a list will appear on screen showing available input sources.
2. Press ▼ to select the desired input source with REGZA-LINK icon.

3 Press ▶ and a second selection screen will appear showing all connected REGZA-LINK equipment.



4 Press ▲ or ▼ to select the desired input source, and then press **OK**.

NOTE:
- These functions depend on the device connected.
- If you select the REGZA-LINK input source from the popup window, some REGZA-LINK devices may automatically turn on.
- When the television is switched on it will take a few minutes for the REGZA-LINK icon to appear in the list. When an HDMI cable is removed, it will take a few minutes for the icon to disappear.
- If the HDMI cable from connected equipment is changed, **Enable REGZA-LINK** in the REGZA-LINK Setup menu may need to be reset to **On**.
- If you change the HDMI lead to a connected device or change an HDMI device setting, reset the **Enable REGZA-LINK** item on the REGZA-LINK Setup menu from **Off** to **On**.

REGZA-LINK playback device control

With the REGZA-LINK mode on your television's remote control, you can control the connected REGZA-LINK playback device you are watching.

To control the REGZA-LINK input source first select the equipment by REGZA-LINK input source selection.

Available remote control keys (behind the panel)

See page 6 for details on available remote control key functions.

NOTE: The available functions depend on the equipment connected. All of the remote control keys may not be available. Please refer to the operation manual for each piece of equipment connected.

REGZA-LINK one touch play

When connected equipment is switched on, REGZA-LINK will automatically detect the television through the input selection. If the television is in standby, it will be switched on automatically.

These functions can be enabled or disabled from the REGZA-LINK Setup (see page 64).

NOTE:
- Even if the equipment is showing a menu, the television may automatically show the input source.
- This feature depends on the connected equipment and television state.

REGZA-LINK system standby

If the television is turned off (standby mode), the television will send a message to turn off (standby mode) all of the REGZA-LINK devices connected to the television.

These functions can be enabled or disabled from the REGZA-LINK Setup (see page 64).

NOTE: This feature depends on the connected equipment and television state.

REGZA-LINK system audio control

With your television's remote control, you can adjust or mute the sound volume of the speakers connected to the television via an AV amplifier. First, set the remote control mode switch to REGZA-LINK.

1 Set the **Speaker Preference** to **Amplifier** in the **REGZA-LINK Setup** menu.

2 Confirm that a connected REGZA-LINK device (such as a DVD player, etc) is selected for the AV amplifier input source.

NOTE:
- These functions depend on the device connected.
- When you turn on the AV amplifier, change its input source, or adjust the sound volume, the sound will be output from the AV amplifier's speakers even if **TV Speakers** has been selected. Turn the television off and on again to output the sound from the TV Speakers.
- This feature may not work if the AV amplifier is operated.

Toshiba PC compatible with REGZA-LINK

This feature automatically adjusts the suitable widescreen formats and picture preferences when connected to a Toshiba PC compatible with REGZA-LINK.

NOTE: This feature depends on the connected equipment state.

Text services

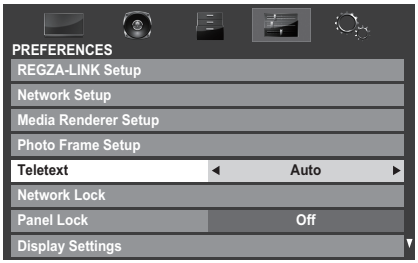
This television has a multi-page text memory, which takes a few moments to load. It offers two ***Modes*** of viewing text – **Auto** will display **Fastext**, if available. **LIST** will save your four favorite pages.

Selecting modes

The text character set will be automatically chosen by the language setting in the **SETUP** *menu.*

1 In the **PREFERENCES** menu, select **Teletext**.

2 With ◀ or ▶ choose **Auto** or **LIST** then press **EXIT**.



Text information

The TEXT button:

To view text services press **TEXT**. Press again to superimpose the text over a normal broadcast picture and again to return to normal viewing. Channels cannot be changed until text is cancelled.

The first text page shown will be the *initial* page.

Any text page can be accessed by entering the 3 digit page number using the numbered buttons, pressing the coloured buttons or pressing **P**∧ to advance to the next page and **P**∨ to go back to the previous page.

Sub-pages

The pages on the screen will dynamically update as sub-pages are received.

If you open a page containing sub-pages, the sub-pages are automatically displayed in sequence. To quit automatic sub-page change, press ◀ or ▶.

Once selected, the sub-page you are viewing will be highlighted and, as the television loads any additional sub-pages, the colour of the numbers will change, indicating that these pages have been loaded.

These sub-pages will remain available to view until another page is chosen or, in normal TV mode, the channel is changed.

Navigating pages using Auto

If **Fastext** is available, four coloured titles will appear at the base of the screen.

To access one of the four given subjects, press the relevant coloured button on the remote control.

For further information on your particular text system(s), see the broadcast text index page or, consult your local Toshiba dealer.

Navigating pages using LIST

The four coloured choices at the bottom of the screen are numbers – 100, 200, 300 and 400, which have been programmed into the television's memory. To view these pages, press the relevant coloured buttons.

To change these saved pages, press the relevant coloured button and enter the 3 digit number. This number will change in the top left of the screen and in the coloured highlight.

Press **OK** to save. **Whenever OK is pressed, all four page numbers showing at the bottom will be saved and the previous ones will be lost.**

If **OK** is not pressed, the selection will be forgotten when the channel is changed.

Other pages may be viewed by entering the 3 digit page number – but DO NOT press **OK** or these pages will be saved.

Control buttons

Below is a guide to the functions of the remote control text buttons.

To display the index/initial page:

Press to access the index/initial page. The one displayed is dependant on the broadcaster.

TEXT To display a page of text:

Press **TEXT** to display text. Press again to superimpose text over a normal picture. Press again to return to normal television viewing. Channels cannot be changed until this has been done.

To reveal concealed text:

To discover the solutions on quiz and joke pages press the button.

To hold a wanted page:

At times it is convenient to hold a page of text. Press and will appear in the top left of the screen. The page will be held on screen until the button is pressed again.

To enlarge the text display size:

Press once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to normal size.

/ To select a page whilst viewing normal picture:

Enter the page number then press /, normal picture will be displayed. The television will indicate when the page is ready by changing the colour of the page number at the top of the screen. Press **TEXT** to view the page.

To display news flashes:
Select the news flash page for the chosen text service (see the index page of text service). The news flashes will be displayed as and when they are broadcast.

Remember to cancel text before changing channels - press the TEXT button twice.

Questions and Answers

Below are the answers to some of the most common queries.

Q *Why is there no sound or picture?*

A Check the television is not in standby mode. Check the mains plug and all mains connections.

Q *There is a picture, but why is there little or no colour?*

A When using an **external** source, for instance, a poor quality video tape, if there is little or no colour, improvements may sometimes be achieved. The colour is factory set to **Auto** to automatically display the best colour system.

To check that you have the best colour:

1. With the external source playing, select **Colour System** from the **SETUP** menu.

2. With ◀ or ▶ choose between **Auto**, **PAL**, **SECAM**, **NTSC 4.43** or **NTSC 3.58**.

Q *Why doesn't the video/DVD being played show on screen?*

A Make sure the media recorder or DVD player is connected to the television as shown on page 7, and then select the correct input by pressing ⇥.

Q *Why is there a picture but no sound?*

A Check all lead connections.
No sound or unacceptable format sound may be received.
Check the volume has not been turned down or that sound mute has not been selected.
Check shared audio settings.

Q *What else can cause a poor picture?*

A Interference or a weak signal. Try a different television station. **Manual Fine Tuning** may help.

1. Select the **ATV Manual Tuning** menu. Highlight the station and press **OK**. Then press ▶ to select **Manual Fine Tuning**.

2. Using ▲ or ▼ adjust to get the best picture and sound. Press **OK** and then **EXIT**.

Q *Why don't the controls of the television work?*

A Check that **Panel Lock** is not **On**.

Q *Why doesn't the remote control work?*

A Check that the mode switch on the remote control is in TV mode.
Check that the batteries aren't dead or inserted incorrectly.

Q *Why is the* **digital** *channel locked?*

A The channel has been locked in **Channel Options** (*see* 'Digital Settings' *section*).

Q *Why are some of the* **digital** *subscription channels unavailable?*

A Your subscription needs upgrading. Contact your service provider.

Q *Why is the soundtrack in English when a different audio language has been selected?*

A The programme is currently being broadcast with an English soundtrack only.

Q *Why is there incorrect or no sound when in* **DTV** *mode?*

A Press I/II to ensure the hard of hearing option has not been selected.

Q *What is DVB-T?*

A Digital Video Broadcast via an aerial/antenna.

Q *What is DVB-C?*

A Digital Video Broadcast via a cable connection.

Q *How are radio channels selected?*

A Press **TV** on the remote control and select **DTV Radio**. Alternatively select from the GUIDE.

Q *What can be done if the PIN number has been forgotten?*

A Use the Master PIN code of 1276, then change to a number of your choice. Select **PIN Setting** from the **DTV Settings** menu to enter PIN. Ensure that no-one else can use the Master PIN by removing the Owner's Manual.

Q *Why are there vertical stripes on the screen when in PC mode?*

A The **Sampling Clock** may need adjustment. Select **PC Settings** from the **Display Settings** menu, highlight **Sampling Clock** and adjust until the lines clear.

Q *Why are there horizontal stripes and/or blurred images on the screen when in PC mode?*

A The **Clock Phase** may need adjustment. Select **PC Settings** from the **Display Settings** menu, highlight **Clock Phase** and adjust until the picture clears.

Q *Why when* **digital** *subtitles have been selected are they not showing on screen?*

A Subtitles are not currently being transmitted by the broadcaster.

Q *Why are there problems with analogue text?*

A Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check the aerial. Go to the *main index* page of the text service and look for the *User Guide*. This will explain the basic operation of text in some detail. If further information is needed on how to use text *see the text section*.

Q *Why is a page number visible at the top of the screen but no text?*

A Text has been selected but Teletext information is currently unavailable on the current source.

Q *Why are the colours wrong when an NTSC source is played?*

A Connect the source via a SCART lead and play. Select **Colour System** from the **SETUP** menu.

1. Set the Colour to **Auto** and exit.
2. Go to the **PICTURE** menu and adjust the tint.

Q *Why don't the devices connected via HDMI operate properly?*

A Make sure to use cables with the HDMI logo (see page 8).

Some early HDMI equipment may not work properly with the latest HDMI TV products, due to new standard adoption. Try switching the HDMI settings (**Enable Content Type** and **INSTAPORT™**) to **Off**.

Q *Why don't the REGZA-LINK devices work?*

A When the connected REGZA-LINK device does not work correctly after you have changed the settings of the device, turn off your television and unplug the power cord, and then plug and turn on again. Unplug the HDMI cable of the REGZA-LINK device and lead again.

Q *Why is the REGZA-LINK logo still showing when the equipment has been disconnected?*

A If the REGZA-LINK device is disconnected, the logo will disappear after approximately one minute.

Q *Why don't the networked devices work?*

A The LAN cables are not connected properly or at all. Connect all cables (see page 11).
Make sure your network address is set up correctly (see page 34).

Q *Why doesn't the wireless network work?*

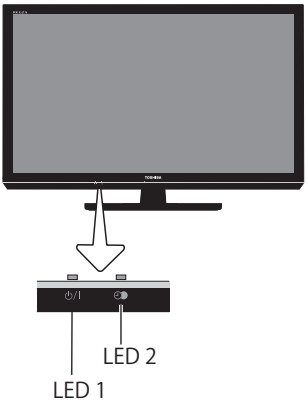
A Make sure the TOSHIBA Dual Band WLAN Adaptor is used (see page 11).
Check that the AP is powered on.

Q *Why doesn't the Media Player feature operate?*

A Make sure that devices are connected correctly. Incorrect behavior may occur with a USB Hub connection.
Check your network setup if using DLNA CERTIFIED™ Server.

Q *What do the LEDs on the front of the television indicate?*

A Check the table below.



LED indication		Condition	Solution
LED-1	LED-2		
Green	Orange	Power ON Programme Timer is set Both Programme Timer (Recording) and Recording are NOT working	–
Green	Red	Power ON Programme Timer (Recording) or Recording is working	–
Green	OFF	Power ON Programme Timer is NOT set Both Programme Timer (Recording) and Recording are NOT working	–
Red	Orange	Power OFF (Standby) Programme Timer is set Both Programme Timer (Recording) and Recording are NOT working	–
Red	Red	Power OFF (Standby) Programme Timer (Recording) or Recording is working	–
Red	OFF	Power OFF (Standby) Programme Timer is NOT set Both Programme Timer (Recording) and Recording are NOT working	–

LED indication		Condition	Solution
LED-1	LED-2		
OFF	Green (Blinks)	Fan stopped. (if applicable)	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
Red (Blinks)	OFF	Abnormal operation of WDT.	
Green (Blinks)	OFF	Abnormal operation of BUS line.	
Orange	Green	For Service SW Upgrade in Progress	–
Red	OFF	For Service SW Upgrade Failed	–
Green	OFF	For Service SW Upgrade Successful	–

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Cleaning the screen and cabinet…

*Turn off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you **do not** use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.*

Disposal…

The following information is only for EU-member states:

Disposal of products

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.
The black bar indicates that the product was placed on the market after August 13, 2005.
By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.
For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

Disposal of batteries and/or accumulators

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.
If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.
By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.
For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

Information

Before connecting any external equipment, turn off all main power switches. If there is no switch, remove the mains plug from the wall socket.

Signal information for Mini D-sub 15 pin connector

Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	R	6	Ground	11	NC
2	G	7	Ground	12	NC
3	B	8	Ground	13	H-sync
4	NC*	9	NC	14	V-sync
5	Ground	10	Ground	15	NC

* NC = not connected

Acceptable PC signals through the PC terminal

The PC input on this TV only accepts signal formats which are compliant with VESA-DMT as shown in the table below. Since some PCs input signals which are different from the resolution and frequency described in the table below, the following phenomenon may occur; incorrect display, false format detection, picture position failure, blur, or judder. In this case, set the monitor output format on your PC to conform to a signal in the table below.

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency	VESA Standard (DMT)
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz	●
		72.809Hz	37.861kHz	31.500MHz	●
		75.000Hz	37.500kHz	31.500MHz	●
SVGA	800 × 600	56.250Hz	35.156kHz	36.000MHz	●
		60.317Hz	37.879kHz	40.000MHz	●
		72.188Hz	48.077kHz	50.000MHz	●
		75.000Hz	46.875kHz	49.500MHz	●
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz	●
		70.069Hz	56.476kHz	75.000MHz	●
		75.029Hz	60.023kHz	78.750MHz	●
WXGA	1280 × 768	59.995Hz	47.396kHz	68.250MHz	●
		59.870Hz	47.776kHz	79.500MHz	●
		74.893Hz	60.289kHz	102.250MHz	●
	1360 × 768	60.015Hz	47.712kHz	85.500MHz	●
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz	●
		75.025Hz	79.976kHz	135.000MHz	●

Acceptable video or PC signals through the HDMI terminals

The HDMI inputs on this TV only accept VGA, SVGA, XGA, WXGA, and SXGA signal formats which are compliant with VESA as shown in the table below. Since some PCs and HDMI or DVI devices input signals which are different from the resolution and frequency described in the table below, the following phenomenon may occur; incorrect display, false format detection, picture position failure, blur, or judder. In this case, set the monitor output format on your PC, HDMI or DVI device to conform to a signal in the table below.

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency	VESA Standard
480i	720 × 480i	59.940/60.000Hz	15.734/15.750kHz	27.000/27.027MHz	
576i	720 × 576i	50.000Hz	15.625kHz	27.000MHz	
480p	720 × 480p	59.940/60.000Hz	31.469/31.500kHz	27.000/27.027MHz	
576p	720 × 576p	50.000Hz	31.250kHz	27.000MHz	
1080i	1920 × 1080i	59.940/60.000Hz	33.716/33.750kHz	74.176/74.250MHz	
1080i	1920 × 1080i	50.000Hz	28.125kHz	74.250MHz	
720p	1280 × 720p	59.940/60.000Hz	44.955/45.000kHz	74.176/74.250MHz	
720p	1280 × 720p	50.000Hz	37.500kHz	74.250MHz	
1080p	1920 × 1080p	59.940/60.000Hz	67.433/67.500kHz	148.352/148.500MHz	
1080p	1920 × 1080p	50.000Hz	56.250kHz	148.500MHz	
1080p	1920 × 1080p	24.000Hz	27.000kHz	74.250MHz	
VGA	640 × 480	59.940/60.000Hz	31.469/31.500kHz	25.175/25.200MHz	●
		72.809Hz	37.861kHz	31.500MHz	●
		75.000Hz	37.500kHz	31.500MHz	●
SVGA	800 × 600	56.250Hz	35.156kHz	36.000MHz	●
		60.317Hz	37.879kHz	40.000MHz	●
		72.188Hz	48.077kHz	50.000MHz	●
		75.000Hz	46.875kHz	49.500MHz	●
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz	●
		70.069Hz	56.476kHz	75.000MHz	●
		75.029Hz	60.023kHz	78.750MHz	●
WXGA	1280 × 768	59.995Hz	47.396kHz	68.250MHz	●
		59.870Hz	47.776kHz	79.500MHz	●
		74.893Hz	60.289kHz	102.250MHz	●
	1360 × 768	60.015Hz	47.712kHz	85.500MHz	●
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz	●
		75.025Hz	79.976kHz	135.000MHz	●

Media Player Supported Format

Photo

Media Format	Extension
JPEG	.jpg, .jpeg

<USB>

Data compatibility: JPEG Exif ver 2.2
Maximum viewable resolution:
4096 x 4096 (HW decode)
16384 x 16384 (SW decode)
Maximum photo size: 9MB
Maximum number of files: 2000/folder

<DLNA>

Data compatibility: JPEG EXIF Ver.1.x or later, JFIF 1.02a
Maximum photo resolution: 4096 x 4096
Maximum photo size: 6 MB
Maximum number of files: 2000 / folder

Movie

Media Format	Extension	Video Codecs	Audio Codecs
AVCHD	.mts, .m2ts	H.264 (MPEG-4 AVC)	Dolby Digital (AC-3)
MP4	.mp4, .m4v	H.264 (MPEG-4 AVC) MPEG-4 part12,14	AAC
MPEG-2 PS MPEG-2 TS	.mpg, .mpeg, .ts	MPEG-1 Video MPEG-2 Video H.264 (MPEG-4 AVC)	MPEG-1 Layer1 MPEG-2 Layer2 MPEG-2 Layer2 Dolby Digital (AC-3) L-PCM

<USB>

File format: MPEG2 PS, MPEG2 TS, AVCHD, MP4
Video: MPEG2, MPEG4, H.264
Audio: MPEG1-Layer2, MPEG1-Layer3, AC3, LPCM
Maximum number of files: 1000 / folder

<DLNA>

File format: MPEG2 PS, MPEG2 TS, MP4*
Video: MPEG2(PS) PAL, MPEG2(TS) PAL, MPEG2(PS) NTSC, MPEG2(TS) NTSC, H.264*
Audio: LPCM, MPEG1-Layer1, MPEG1-Layer2, MPEG2-Layer2, AC3, AAC
Maximum number of files: 1000 / folder

* Some files may not be played.

Music

Media Format	Extension	Audio Codecs
MP3	.mp3	MPEG-1 Audio Layer-3 MPEG-2 Audio Layer-3 MPEG-2.5 Audio Layer-3
MP4	.mp4, .m4a	AAC
LPCM		L-PCM

<USB>

File format: MP3, MP4 (AAC)
Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz
Bit rate: from 32 to 320 kbps
Maximum number of files: 1000 / folder

<DLNA>

File format: MP3, LPCM
Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz
Bit rate: from 32 to 320 kbps
Maximum number of files: 1000 / folder

English

Specifications and accessories

Receiving systems

DVB-T Broadcast systems/channels		Broadcast systems/channels	
UK	UHF 21-68	PAL-I	UHF UK21-UK69
France	VHF 05-10 (VHF 01-05) UHF 21-69	PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41
Germany	VHF 05-12 UHF 21-69	SECAM-L	UHF F21-F69 VHF F1-F10, B-Q
Austria	VHF 05-12 UHF 21-69	SECAM-D/K	UHF R21-R69 VHF R1-R12
Switzerland	VHF 05-12 UHF 21-69		
Italy	VHF 05-12 (D,E,F,G,H,H1,H2) UHF 21-69		
Spain	UHF 21-69		
Nederlands	VHF 05-12 UHF 21-69		
Greece	VHF 05-12 UHF 21-69		

DVB-C Broadcast systems

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT 1	Input/Output	21-pin SCART	RGB, A/V input AV out, TV out
EXT 2	Input	Phono jacks Phono jacks	Y, P_B/C_B, P_R/C_R Audio L + R
EXT 3	Input	Phono jacks	Video/Audio L + R
HDMI 1/2/3/4	Input	HDMI® compliant HDCP compliant (Enable Content Type, INSTAPORT™, RGB Range, supported)	
PC	Input	Mini D-sub 15-pin	Analog RGB signal
PC/HDMI 3 Audio input		3.5mm mini jack	Audio
Digital Audio Output (S/PDIF)		Optical	
LAN port		RJ-45	
USB port		Media Player Interface version: USB 2.0 USB class: Mass Storage File system: FAT12, FAT16 and FAT32 Wireless LAN adaptor ready for a home network, IEEE802.11a/b/g/n compatible	
Headphone socket		3.5mm stereo	

Stereo		Nicam 2 carrier system	
Visible Screen Size (approx.)	Model	32 37 42	80cm 94cm 107cm
Display		16:9	
Sound output (at 10% distortion)		10W + 10W	
Power consumption (approx.)		32RL 37RL 42RL	92W 100W 138W
Annual power consumption* (approx.)		32RL 37RL 42RL	97.8kWh 106.0kWh 142.2kWh
On mode power consumption** (approx.)		32RL 37RL 42RL	66.0W 71.6W 96.4W
Standby power consumption (approx.)		0.2W	

* Operating 4 hours a day and 365 days a year.

** Tested in accordance with IEC 62087-BD Ed. 2.0:2008.

Dimensions (approx.)	32RL 37RL 42RL	55cm (H) 62cm (H) 68cm (H)	77cm (W) 21cm (D) 90cm (W) 21cm (D) 101cm (W) 22cm (D)
	(Height dimension includes foot stand)		
Weight (approx.)	32RL 37RL 42RL	10.0kg 12.5kg 14.0kg	
Operating condition	Temperature 5°C - 35°C (41°F - 94°F) Humidity 20 - 80% (non-condensing)		
Supplied accessories	• Remote control • 2 batteries (AAA, IEC R03 1.5V) • 'P' Clip/Screw (for TV mounting) See page 5. • Tool set		
Optional accessories	TOSHIBA Dual Band WLAN Adaptor WLM-10U2		

>REMEMBER

IF YOU ARE EXPERIENCING ANY DIFFICULTIES PLEASE VISIT **WWW.TOSHIBA.CO.UK/FAQ**

OR CONTACT THE TOSHIBA CUSTOMER HELPLINE ON **0844 856 0730**

Full Warranty Terms and Conditions available at **http://www.toshiba.co.uk/tv-dvd-support**

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